



GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

ANALYSIS OF RATES FOR DELHI

(Vol. 1)

2012



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FOREWORD

Central Public Works Department Analysis of Rates for Delhi is a very comprehensive and useful document forming basis for the rates of various items. It is based on scientific assessment of inputs of materials, labour and machinery in various items of work normally involved in a civil construction projects.

It was first compiled in the year 1950, followed by subsequent publication or revision in the years 1955, 1962, 1972, 1977, 1985, 1997, 2007. Since publication of Analysis of Rates for Delhi 2007, prices of labour and materials have registered substantial increase. Besides the increased cost, there has been a spurt of new construction materials and introduction of Green Building Concept of construction. This has necessitated revision of existing Analysis of Rates for Delhi 2007 to include the above changes. Accordingly, this Analysis of Rates for Delhi 2012 has been prepared.


The analysis of existing items has been updated in conformity with updated items of work in DSR 2012. Also, new analysis of rates for many newly introduced items in recently published DSR 2012 has been included in this Analysis of Rates for Delhi 2012.

Two new Sub Heads pertaining to Rain Water Harvesting & Tube wells, and Conservation of Heritage Buildings have been included in this Analysis of Rates for Delhi consisting of new analysis of rates for items in these Sub heads.

I wish to place on record the technical input and the effective coordination on the part of Shri Rakesh Misra, SPL DG (TD) and the efforts put in by Shri A.K. Sharma, CE (CSQ) and his team of officers in TAS unit in finalizing Analysis of Rates for Delhi 2012 in a record time.

I am sure that C.P.W.D. Analysis of Rates for Delhi 2012 shall be very useful document to various Central Govt. Ministries, Departments & Public Sector Undertakings.

**New Delhi
May 2012**


(S.K. MITTAL)
DIRECTOR GENERAL, CPWD

PREFACE

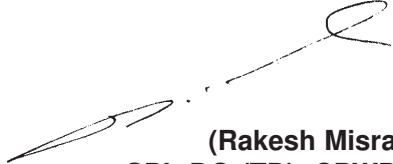
- 1.0 C.P.W.D. Analysis of Rates for Delhi 2012 is the revised edition of C.P.W.D. Analysis of Rates for Delhi 2007 (Reprint 2010).
- 2.0 Analysis of Rates for Delhi 2012 incorporates most of the analysis of items of Analysis of Rates for Delhi 2007 (Reprint 2010) with updated correction slips, including analysis of existing items and also corresponding new items introduced in DSR 2012.
- 3.0 Analysis of Rates for Delhi, 2012 is published in two volumes i.e. volume I & II as under:

Volume Number	Sub-head No.	Content/ Sub-head
One	00	Basic Rates
	01	Carriage of materials
	02	Earth Work
	03	Mortars
	04	Concrete Work
	05	Reinforced Cement Concrete
	06	Brick Work
	07	Stone Work
	08	Marble & Granite Work
	09	Wood and PVC Work
	10	Steel Work
	11	Flooring
	12	Roofing
Two	13	Finishing
	14	Repairs to Buildings
	15	Dismantling and Demolishing
	16	Road Work
	17	Sanitary Installations
	18	Water Supply
	19	Drainage
	20	Pile work
	21	Aluminium Work
	22	Water Proofing
	23	Horticulture and Landscaping
	24 (New)	Rain Water Harvesting & Tube wells
	25 (New)	Conservation of Heritage buildings.

- 4.0 Analysis of few existing items which are either obsolete or are not in use, have been deleted. Similarly, analysis of many items have been modified to correspond to items of DSR 2012. Several new analysis and sub item have been introduced in Analysis of Rates for Delhi 2012.
- 5.0 Items related to Green building concepts, Rain water harvesting & Conservation of Heritage Building have also being added in the Analysis of Rates for Delhi 2012.

- 6.0 Analysis of Rates for Delhi, 2012 is based on basic rates of labour & materials given in DSR 2012.
- 7.0 The nomenclatures of main items have been printed along with the analysis of first Sub item only to conserve the space and number of pages.
- 8.0 Sundries have been considered as 1.49 times based on Cost Index of Delhi as 149 as on 01.04.2011 over PAR 2007 as base 100.
- 9.0 A lot of effort has gone into the preparation of this Analysis of Rates. I convey my deep appreciation and sincere thanks to Shri A.K Sharma, CE. CSQ, Shri S. P. Chaudhary S.E. (TAS), Sh. R.K Saraswat EE I (TAS), Sh. Kamta Prasad EE II (TAS), Sh. R.K Vashisth AE, Sh. Chhabilal Singh AE, Sh. R.K Goel JE, Sh. Abhishek kumar JE, Sh. Ram Janam Chaudhary JE, Sh. Kashinath Ratha JE, Sh. Rakesh Kumar Estimator, Sh. Bahal Singh Estimator, and other officers and staff of TAS Unit for sincere efforts made in the preparation of document in such short time.
- 10.0 I also express my sincere thanks to Shri V.J. Reddy EE (P), Hyderabad Central Circle-II, who has contributed & helped in finalising the Analysis of Rates for Delhi 2012 in addition to his routine duties.
- 11.0 Due care has been taken to print the C.P.W.D. Analysis of Rates for Delhi as correctly as possible. It is, however possible that some errors might have crept in. **In case any error or omission is noticed, it may be brought to the notice of the Superintending Engineer (TAS), CPWD, Room no. 418, A-wing, Nirman Bhawan, New Delhi.**

New Delhi
May, 2012



(Rakesh Misra)
SPL DG (TD), CPWD,
Nirman Bhawan, New Delhi.

C O N T E N T S

Vol. 1

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BASIC RATES

BASIC RATES

0.1 HIRE CHARGES OF PLANTS

Code No	Description	Unit	Rate ₹
0001	Hire charges of Coaltar Boiler 900 to 1400 litres	day	800.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	800.00
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	1,500.00
0004	Production cost of concrete by batch mix plant	cum	350.00
0005	Hire charges of Diesel Truck - 9 tonne	day	1,600.00
0006	Hire charges of spraying machine including electric charges	day	250.00
0007	Hire charges of coaltar Sprayer	day	300.00
0008	Hire charges of Barber green, drying, mixing and Asphalt Plant, with accessories, capacity 30/45 tonne	day	7,500.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	130.00
0010	Hire charges of Derrick monkey rope	day	775.00
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	500.00
0012	Vibrator (Needle type 40 mm)	day	300.00
0013	Machine for rubbing of floors	day	300.00
0014	Front end loader capacity 1.00 cum	day	5,000.00
0016	Mastic Cooker	day	740.00
0017	Hire and running charges of tipper	day	1,700.00
0018	Hire and running charges of loader	day	5,000.00
0019	Hand Grinder for mirror polish	day	200.00
0020	Hydraulic Excavator (3D) with driver and fuel	day	7,500.00
0021	Pin vibrator	day	325.00
0022	Surface Vibrator	day	400.00
0023	Hot Bitumen mixer 0.5 cum i/c hand cart	day	4,000.00
0024	Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site	day	34,000.00
0025	Hire and running charges of light crane	day	2,200.00
0026	Hire and running charges of bentonite pump	day	4,200.00
0027	Hire and running charges of vibrating pile driving hammer complete with power unit and accessories	day	35,000.00
0028	Hire and running charges of crane 20 tonne capacity	day	9,250.00
0029	Carriage of concrete by transit mixer	cum per km	30.00
0030	Generator 250 KVA	day	2,200.00
0033	Paint applicator	day	750.00

Code No	Description	Unit	Rate ₹
0037	Mobile crane	day	6,500.00
0038	Tractor with ripper attachment	day	1,350.00
0039	Tractor with trolley	day	1,350.00
0040	Air compressor 250 cfm with two leads for pneumatic cutters/hammers	day	1,800.00
0041	Joint cutting machine with 2-3 blades	day	900.00
0042	C.C. batch mix plant	day	10,000.00
0043	Road sweeper	day	550.00
0045	Slip form paver with sensor	day	13,000.00
0046	Water tanker 5000 Ltr. Capacity	day	1,000.00
0047	Concrete joint cutting machine	day	900.00
0048	Texturing machine	day	925.00
Note :- Above hire - charges include cost of services of operating staff and supply of lubricating oil.			
NEW CODES			
0049	Dozer D-80-A 12	hour	3,800.00
0050	Motor Grader 3.35 metre blade	hour	2,450.00
0051	Hydraulic Excavator of 1 cum bucket	hour	1,300.00
0052	Front end loader 1 cum bucket capacity (incl POL)	hour	800.00
0053	Tipper -5 Cum	tonne km	3.00
0054	Vibratory roller 8 to 10 tonne	hour	1,550.00
0055	Smooth Wheeled Roller 8 to 10 tonne	hour	460.00
0056	Tandem Road Roller	hour	1,150.00
0057	Water Tanker 5 to 6 KL capacity	hour	150.00
0058	Air compressor	hour	325.00
0059	Wet Mix Plant 60 TPH	hour	1,200.00
0060	Mechanical Broom Hydraulic	hour	360.00
0061	Emulsion Pressure Distributor @ 1750 sqm per hour	hour	800.00
0062	Hot mix Plant -120 TPH capacity	hour	23,700.00
0063	Hot mix Plant 100 TPH Capacity	hour	17,500.00
0064	Paver finisher Hydrostatic with sensor control 100 TPH	hour	2,700.00
0065	Paver finisher Mechanical 100 TPH	hour	1,000.00
0066	Batching and Mixing Plant @ 75 cum per hour	hour	2,500.00
0068	Concrete Paver finisher with 40 HP Motor and sensor	hour	2,900.00
0069	Generator 250 KVA	hour	900.00
0070	Generator 100 KVA/125 KVA	hour	700.00

Code No	Description	Unit	Rate ₹
0071	Truck 5.5 cum/ 10 tonnes	tonne km	3.00
0075	Road sweeper (Mechanical Broom) @ 1250 sqm per hour	hour	360.00
0076	Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output	hour	14,000.00
0080	Hire and running charges of drill machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator)	day	7,500.00
0081	Pile integrity testing equipment	day	3,000.00
Note :- Above hire - charges (from item code 0049 to 0081) include cost of services of operating staff, supply of lubricating oil and diesel also.			

BASIC RATES

0.2 LABOUR

Note :- These rates are exclusive of contractor's profit and over heads and are inclusive of wages for weekly day of rest

Code No	Description	Unit	Rate ₹
0100	Bandhani	day	260.00
0101	Bhisti	day	260.00
0102	Blacksmith 1st class	day	301.00
0103	Blacksmith 2nd class	day	273.00
0111	Carpenter 1st class	day	301.00
0112	Carpenter 2nd class	day	273.00
0113	Chowkidar	day	247.00
0114	Beldar	day	247.00
0115	Coolie	day	247.00
0116	Fitter (grade 1)	day	301.00
0117	Assistant Fitter or 2nd class fitter	day	273.00
0119	Glazier	day	273.00
0122	Mason (for plaster of paris work) 1st class	day	301.00
0123	Mason (brick layer) 1st class	day	301.00
0124	Mason (brick layer) 2nd class	day	273.00
0125	Mason (for plain stone work) 2nd class	day	273.00
0126	Mason (for ornamental stone work) 1st class	day	301.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	301.00
0128	Mate	day	260.00
0130	Mistry	day	301.00
0131	Painter	day	273.00
0132	Rock Excavator	day	247.00
0133	Rock Breaker	day	247.00
0134	Rock Hole Driller	day	247.00
0135	Stone Chiseller	day	260.00
0138	Sprayer (for bitumen, tar etc.)	day	260.00
0139	Skilled Beldar (for floor rubbing etc.)	day	260.00
0141	White Washer	day	260.00

Code No	Description	Unit	Rate ₹
0155*	Mason (average)	day	287.00
0156*	Carpenter (average)	day	287.00
0157	Operator (Pile/Special machine)	day	327.00
0159	Skilled torch operator for laying tack	day	301.00
0160	Technician	day	700.00
0161	Helper (Technician)	day	300.00

Note :- * These rates are average of 1st class and 2nd class categories. This is for use in the analysis of rate only.

BASIC RATES

0.3 MATERIALS

Note :- These rates are exclusive of contractor's profit, over heads and carriage but include octroi, royalty, sales tax (VAT) etc.

Code No	Description	Unit	Rate ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 nos	35.00
0223	Non-Asbestos fibre (high impact poly propylene reinforced) cement corrugated sheet 6 mm thick	sqm	250.00
0224	Non-Asbestos fibre (high impact poly propylene reinforced) cement close fitting adjustable ridge	metre	200.00
0225	Non-Asbestos fibre (high impact poly propylene reinforced) cement corrugate serrated adjustable ridge	metre	200.00
0226	Non-Asbestos fibre (high impact poly propylene reinforced) cement plain wing adjustable ridge	metre	200.00
0227	Non -Asbestos fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips	metre	280.00
0228	Non-Asbestos fibre (high impact poly propylene reinforced) cement corrugated apron piece	metre	200.00
0229	Non-Asbestos fibre (high impact poly propylene reinforced) cement eaves filler piece	each	150.00
0230	Non-Asbestos fibre (high impact poly propylene reinforced) cement north light curves	metre	310.00
0231	Non-Asbestos fibre (high impact poly propylene reinforced) cement ventilator curves	each	390.00
0232	Non-Asbestos fibre (high impact poly propylene reinforced) cement barge boards 6 mm thick	metre	395.00
0233	Non-Asbestos fibre (high impact poly propylene reinforced) cement ridge finial	pair	140.00
0234	Non-Asbestos fibre (high impact poly propylene reinforced) cement special north light curves	each	514.00
0235	Non-Asbestos fibre (high impact poly propylene reinforced) cement S type louvers	each	250.00
0236	Non-Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	182.00
0237	Non-Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 8 mm thick	sqm	206.00
0285	Brick Aggregate (single size) : 63 mm nominal size	cum	475.00
0286	Brick Aggregate (single size) : 50 mm nominal size	cum	490.00
0287	Brick Aggregate (single size) : 40 mm nominal size	cum	500.00
0291	Stone Aggregate (single size) : 63 mm nominal size	cum	850.00
0292	Stone Aggregate (single size) : 50 mm nominal size	cum	900.00

Code No	Description	Unit	Rate ₹
0293	Stone Aggregate (single size) : 40 mm nominal size	cum	950.00
0294	Stone Aggregate (single size) : 25 mm nominal size	cum	1,000.00
0295	Stone Aggregate (single size) : 20 mm nominal size	cum	1,050.00
0296	Stone Aggregate (single size) : 12.5 mm nominal size	cum	1,050.00
0297	Stone Aggregate (single size) : 10 mm nominal size	cum	1,050.00
0298	Stone Aggregate (single size) : 06 mm nominal size	Cum	1,100.00
0302	Safeda ballies 125 mm diameter	metre	37.00
0304	Bajri	cum	900.00
0305	Bamboo 25 mm dia 2.5 metre long	score	300.00
0308	Bhusa	quintal	375.00
0309	Paving bitumen of grade VG-10 of approved quality	tonne	37,000.00
0310	Bitumen emulsion	tonne	28,500.00
0312	Bitumen grade PMB - 40	tonne	41,400.00
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	37,000.00
0314	Bitumen hot sealing compound : grade A	kilogram	26.00
0316	Bitumen solution primer of approved quality	litre	40.00
0317	premoulded joint filler 12 mm thick	sqm	350.00
0318	Bitumen felt fibre base (vegetable or animal): Type 2 grade 1	sqm	55.00
0322	Bitumen felt : Type 3 grade 1	sqm	50.00
0324	Coal Tar	litre	25.00
0325	Blasting powder	kilogram	35.00
0326	Blasting fuse (fuse wire)	each	15.00
0328	White face insulating board : 12 mm thick	sqm	360.00
0332	Natural colour insulating board : 12 mm thick	sqm	270.00
0336	Flame retardant face insulating board : 12 mm thick	sqm	315.00
0339	Flame retardant face insulating, impregnated fibre board 12 mm thick	sqm	350.00
0341	Flat pressed 3 layer particle board (medium density) Grade 1.12 mm thick	sqm	325.00
0346	Extra for veneered particle board with : Teak veneering on one side and commercial veneering on other side	sqm	235.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	155.00
0348	Extra for veneered particle board with Teak veneering both sides	sqm	455.00
0362	Brick bats	cum	325.00
0364	Wire brush	each	20.00
0365	Soft brush	each	18.00

Code No	Description	Unit	Rate ₹
0367	Portland Cement	tonne	5,000.00
0368	White cement	tonne	12,000.00
0370	Coal (steam)	quintal	400.00
0373	Cramp Gun metal 25x6x300 mm	each	70.00
0378	Brass butt hinges (light /ordinary type) : 125x70x4 mm	10 nos	800.00
0379	Brass butt hinges(light /ordinary type) : 100x70x4 mm	10 nos	650.00
0380	Brass butt hinges (light /ordinary type) : 75x40x2.5 mm	10 nos	400.00
0381	Brass butt hinges (light /ordinary type) : 50x40x2.5 mm	10 nos	175.00
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm (0.70 kg)	10 nos	2,900.00
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm (0.56 kg)	10 nos	2,600.00
0384	Brass butt hinges (heavy type) : 75x65x4.0 mm (0.20 kg)	10 nos	900.00
0385	Brass parliamentary hinges 150x125x27x5 mm	10 nos	2,600.00
0386	Brass parliamentary hinges 125x125x27x5 mm	10 nos	2,300.00
0387	Brass parliamentary hinges 100x125x27x5 mm	10 nos	2,000.00
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 nos	1,600.00
0389	Brass single acting spring hinges 150 mm	each	300.00
0390	Brass single acting spring hinges 125 mm	each	250.00
0391	Brass single acting spring hinges 100 mm	each	150.00
0392	Brass double acting spring hinges 150 mm	each	500.00
0393	Brass double acting spring hinges 125 mm	each	350.00
0394	Brass double acting spring hinges 100 mm	each	300.00
0400	Brass tower bolt (barrel type) 250 x 10 mm	each	225.00
0401	Brass tower bolt (barrel type) 200x 10 mm	each	175.00
0402	Brass tower bolt (barrel type) 150 x 10 mm	each	140.00
0403	Brass tower bolt (barrel type) 100 x 10 mm	each	90.00
0404	Brass flush bolt 250 mm	each	140.00
0405	Brass flush bolt 150 mm	each	120.00
0406	Brass flush bolt 100 mm	each	85.00
0408	Brass handles 125 mm with plate 175x32 mm	each	140.00
0409	Brass handles 100 mm with plate 150x32 mm	each	125.00
0410	Brass handles 75 mm with plate 125x32 mm	each	95.00
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	160.00
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	150.00
0413	Brass mortice latch and lock 100 x 65 mm with 6 levers and a pair of brass lever handles	each	350.00
0414	Brass mortice latch 100x65 mm with a pair of brass lever handles	each	300.00

Code No	Description	Unit	Rate ₹
0417	Brass 150 mm floor door stopper (0.357 kg)	each	160.00
0418	Brass hard drawn hooks and eyes 300 mm	10 nos	700.00
0419	Brass hard drawn hooks and eyes 250 mm	10 nos	675.00
0420	Brass hard drawn hooks and eyes 200 mm	10 nos	625.00
0421	Brass hard drawn hooks and eyes 150 mm	10 nos	600.00
0422	Brass hard drawn hooks and eyes 100 mm	10 nos	500.00
0423	Brass casement window fastener	each	45.00
0424	Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	120.00
0425	Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	100.00
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	90.00
0427	Brass quadrant stays 300 mm	each	120.00
0428	Brass fanlight catch	10 nos	170.00
0429	Brass fanlight pivot	10 nos	190.00
0430	Brass chain with hook for fan light catch	each	30.00
0431	Brass hasps and staples (safety type) 150 mm	10 nos	700.00
0432	Brass hasps and staples (safety type) 115 mm	10 nos	600.00
0433	Brass hasps and staples (safety type) 90 mm	10 nos	500.00
0438	Brass Night latch	each	450.00
0442	Brass helical spring 150 mm	each	300.00
0444	Brass curtain rod 20 mm dia 1.25 mm thick	metre	100.00
0445	Brass curtain rod 25 mm dia 1.25 mm thick	metre	120.00
0446	Brass brackets (curtain rods) 20 mm	each	40.00
0447	Brass cupboard knob or wardrobe knob 50 mm	each	30.00
0449	Brass screws 50 mm	100 nos	200.00
0450	Brass screws 40 mm	100 nos	160.00
0451	Brass screws 30 mm	100 nos	130.00
0452	Brass screws 25 mm	100 nos	95.00
0453	Brass screws 20 mm	100 nos	80.00
0524	Chromium plated Brass butt hinges (heavy) type 75x65x4 mm (200 gms)	10 nos	950.00
0525	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4 mm	10 nos	810.00
0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 nos	675.00
0527	Chromium plated Brass butt hinges (light/ ordinary) type 75x40x2.5 mm	10 nos	425.00
0528	Chromium plated Brass butt hinges (light/ ordinary) type 50x40x2.5 mm	10 nos	185.00

Code No	Description	Unit	Rate ₹
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	160.00
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	140.00
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	120.00
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	500.00
0568	Chromium plated brass casement window fastener	each	90.00
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	140.00
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	120.00
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	100.00
0583	Chromium plated Brass Night latch	each	500.00
0584	Chromium plated Brass Wardrobe Knob 50 mm	each	45.00
0585	Chromium plated Brass screws 50 mm	100 nos	230.00
0586	Chromium plated Brass screws 40 mm	100 nos	190.00
0587	Chromium plated Brass screws 30 mm	100 nos	150.00
0588	Chromium plated Brass screws 25 mm	100 nos	115.00
0589	Chromium plated Brass screws 20 mm	100 nos	100.00
0590	Chromium plated Brass curtain rod 12 mm dia 1.25 mm thick	metre	180.00
0591	Chromium plated Brass curtain rod 20 mm dia 1.25 mm thick	metre	250.00
0592	Chromium plated Brass curtain rod 25 mm dia 1.25 mm thick	metre	330.00
0594	Bright finished or black enameled mild steel butt hinges 125x65x 2.12 mm	10 nos	130.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x 1.90 mm	10 nos	80.00
0596	Bright finished or black enameled mild steel butt hinges 75x47x 1.70 mm	10 nos	60.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x 1.50 mm	10 nos	45.00
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	35.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 nos	60.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	50.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	40.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	30.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	25.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	5.00
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 nos	130.00

Code No	Description	Unit	Rate ₹
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 nos	80.00
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 nos	55.00
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 nos	45.00
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 nos	320.00
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 nos	300.00
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 nos	225.00
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 nos	190.00
0650	Oxidised mild steel single acting spring hinges 150 mm	each	105.00
0651	Oxidised mild steel single acting spring hinges 125 mm	each	100.00
0652	Oxidised mild steel single acting spring hinges 100 mm	each	80.00
0653	Oxidised mild steel double acting spring hinges 150 mm	each	110.00
0654	Oxidised mild steel double acting spring hinges 125 mm	each	105.00
0655	Oxidised mild steel double acting spring hinges 100 mm	each	85.00
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	40.00
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	90.00
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	80.00
0662	Oxidised mild steel door latch 300x20x6 mm	each	45.00
0663	Oxidised mild steel door latch 250x20x6 mm	each	40.00
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	40.00
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	35.00
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	25.00
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	20.00
0668	Oxidised mild steel handles 125 mm	each	17.00
0669	Oxidised mild steel handles 100 mm	each	15.00
0670	Oxidised mild steel handles 75 mm	each	14.00
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 nos	120.00
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 nos	100.00
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 nos	75.00
0682	Oxidised mild steel screws 50 mm	100 nos	70.00
0683	Oxidised mild steel screws 40 mm	100 nos	50.00
0684	Oxidised mild steel screws 30 mm	100 nos	45.00
0685	Oxidised mild steel screws 25 mm	100 nos	35.00
0686	Oxidised mild steel screws 20 mm	100 nos	30.00
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 nos	550.00
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 nos	510.00

Code No	Description	Unit	Rate ₹
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 nos	500.00
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 nos	480.00
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 nos	490.00
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 nos	475.00
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 nos	450.00
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 nos	390.00
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	155.00
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	125.00
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 nos	700.00
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 nos	580.00
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 nos	450.00
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 nos	360.00
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 nos	280.00
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 nos	470.00
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 nos	360.00
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 nos	300.00
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	125.00
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	1,600.00
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	1,450.00
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	1,300.00
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	1,100.00
0718	Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	950.00
0719	Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	850.00
0752	Block board construction flush door lipping	sqm of door area	280.00
0753	Square vision panel (upto 0.10 sqm) in Block board construction flush door	sqm of door area	110.00
0754	Circular vision panel (upto 0.10 sqm) in Block board construction flush door	sqm of door area	170.00
0755	Decorative type Louvers (upto 0.20 sqm) in Block board construction flush door	sqm of door area	290.00
0757	Rebate cutting in Block board construction flush door	sqm of door area	80.00

Code No	Description	Unit	Rate ₹
0759	Decorative plywood 4 mm	sqm	400.00
0761	Fuel wood	quintal	450.00
0763	Glue	kilogram	65.00
0765	Hessian cloth	sqm	20.00
0768	Cement Concrete Jali 50 mm thick	sqm	210.00
0769	Cement Concrete Jali 40 mm thick	sqm	180.00
0770	Cement Concrete Jali 25 mm thick	sqm	145.00
0771	Kerosene oil	litre	30.00
0773	Unslaked lime	quintal	300.00
0775	Dehradun white lime	quintal	410.00
0776	Satna lime	quintal	230.00
0777	Dry hydrated lime (factory made)	quintal	220.00
0784	Marble dust/ powder	cum	1,000.00
0785	Marble chips up to 4 mm and downsize White & black	quintal	180.00
0788	Marble chips large size above 4 mm White & black	quintal	180.00
0810	Moorum	cum	450.00
0811	Mud (dry)	cum	50.00
0815	Dry distemper	kilogram	35.00
0816	Oil bound washable distemper/ Acrylic distemper	kilogram	42.00
0818	Linseed oil (double boiled)	litre	100.00
0820	Cement primer	litre	80.00
0821	Distemper primer	litre	80.00
0823	Pink primer (for wood)	litre	85.00
0826	Aluminium paint	litre	115.00
0827	Acid proof paint (chocolate or black)	litre	105.00
0828	Anticorrosive bituminous paint (black)	litre	85.00
0829	Black Japan	litre	90.00
0830	Enamel paint	litre	125.00
0831	Floor enamel paint in all shades except green	litre	120.00
0833	Synthetic enamel paint in black or chocolate shade	litre	130.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	135.00
0835	Plastic emulsion paint	litre	165.00
0845	Roofing paint for iron sheets in red colour	litre	110.00
0850	White lead	kilogram	80.00
0851	Water proofing cement paint	kilogram	40.00

Code No	Description	Unit	Rate ₹
0855	Wax polish (ready made)	kilogram	175.00
0856	Ordinary varnish	litre	65.00
0857	Superior copal varnish	litre	125.00
0858	Superior spar varnish	litre	125.00
0859	Oil type wood preservative	litre	70.00
0863	Putty for wood work	kilogram	30.00
0865	Pig lead	kilogram	90.00
0868	Premixed super white gypsum plaster	kilogram	7.00
0869	Plaster of Paris	kilogram	4.00
0870	Plug	each	8.00
0873	Copper pins 6 mm dia 7.5 cm long	each	10.00
0874	Black colour dark shade pigment	kilogram	55.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade	kilogram	70.00
0876	Green or blue medium shade pigment	kilogram	60.00
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150mm dia	each	25.00
0966	Sand Cast iron plain shoe 150 mm dia	each	325.00
0967	Copper plate	kilogram	270.00
0969	Pulley 25 mm dia	each	30.00
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	1,150.00
0974	Top cover for rolling shutters 1.25 mm thick.	metre	550.00
0975	27.5 cm long wire spring grade no 2 for rolling shutters	each	250.00
0976	Ball bearing for rolling shutters	each	330.00
0977	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	520.00
0978	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 16.80 sqm area of door	sqm	550.00
0979	Royalty for good earth	cum	30.00
0980	Royalty for sludge	cum	90.00
0982	Coarse sand (zone III)	cum	1,120.00
0983	Fine sand (zone IV)	cum	640.00
0992	Galvanised steel plain sheets	quintal	4,750.00
0994	Standard quality hard board sheet 3 mm thick	sqm	110.00
0996	Standard quality hard board sheet 4.5 mm thick	sqm	130.00
0999	Shellac	kilogram	205.00
1000	Spirit	litre	65.00

Code No	Description	Unit	Rate ₹
1001	Spun yarn	kilogram	40.00
1002	Mild steel round bar 12 mm dia and below	quintal	4,100.00
1003	Mild steel round bar above 12 mm dia	quintal	4,000.00
1004	Average rate of Mild steel round bars for reinforcements	quintal	4,050.00
1005	Twisted steel / deformed bars	quintal	4,500.00
1006	Mild steel square bars	quintal	4,250.00
1007	Structural steel such as tees, angles, channels and R.S. joists	quintal	4,250.00
1008	Flats up to 10 mm in thickness	quintal	4,200.00
1009	Flats exceeding 10 mm in thickness	quintal	4,150.00
1010	Mild steel plates	quintal	4,500.00
1013	Mild steel sheets for tanks	quintal	4,600.00
1015	Mild steel expanded metal 20x60 mm strands	sqm	270.00
1019	Mild steel hooks	each	30.00
1020	Mild steel rivets	quintal	4,800.00
1021	Hard drawn steel wire fabric	sqm	430.00
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	20.00
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	90.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	10.00
1025	Mild stel bolts 6 mm dia and 25 mm long with hexagonal head	10 nos	25.00
1028	Straining bolts	each	70.00
1029	Galvanised steel barbed wire	quintal	5,175.00
1030	Galvanised steel turn buckles	each	15.00
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	20.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	15.00
1034	Bolts and nuts up to 300 mm in length	quintal	5,400.00
1035	Bolts and nuts above 300 mm in length	quintal	5,400.00
1036	Iron pintels including welded pin	each	35.00
1143	Steel beading size 10 x 10 x 1.6 mm (box type)	metre	20.00
1145	Aluminium Plain Strip edging 38x12x3 mm	metre	95.00
1149	Glass strip 4 mm thick 40 mm deep	metre	9.00
1151	Boundary stone top chisel dressed 15x15x90 cm	each	60.00
1154	Through and bond stone size 24 x24 x39 cm	100 nos	1,100.00
1157	Stone for masonry work	cum	675.00

Code No	Description	Unit	Rate ₹
1158	Stone for pitching 15 cm x 22.5 cm	cum	420.00
1159	Stone dust	cum	925.00
1160	Red sand stone block	10 cudm	60.00
1161	White sand stone block	10 cudm	65.00
1163	White sand stone slab 75 mm thick (un-dressed)	sqm	280.00
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	155.00
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	170.00
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	120.00
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	270.00
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	175.00
1174	Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	165.00
1175	White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	185.00
1177	Stone grit 6 mm and down size or pea sized gravel	cum	900.00
1179	Crushed stone 2.36 mm to 12.5 mm size	cum	915.00
1186	Superior class teak wood such as Dandeli, Balarshah or Malabar in planks	10 cudm	1,050.00
1187	First class teak wood in scantling	10 cudm	700.00
1188	First class teak wood in planks	10 cudm	800.00
1189	Second class teak wood in scantling	10 cudm	640.00
1190	Second class teak wood in planks	10 cudm	720.00
1194	Second class deodar wood in planks	10 cudm	480.00
1196	First class kail wood in planks	10 cudm	300.00
1197	Second class kail wood in scantling	10 cudm	250.00
1198	Second class kail wood in planks	10 cudm	250.00
1199	Sal wood in scantling	10 cudm	500.00
1201	Precast terrazzo tiles 22 mm thick (light shade)	sqm	240.00
1202	Precast terrazzo tiles 22 mm thick (medium shade)	sqm	220.00
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	200.00
1207	G.I. Limpet washer	100 nos	35.00
1208	Bitumen washer	100 nos	25.00
1209	G.I. plain washer thick	100 nos	32.00
1210	G.I. plain washer thin	100 nos	30.00
1211	G.I. plain washer for seam bolts	100 nos	32.00
1213	Water proofing materials	kilogram	25.00
1214	Welding by gas plant	cm	1.50
1215	Welding by electric plant	cm	1.50

Code No	Description	Unit	Rate ₹
1216	Whiting	quintal	400.00
1219	Wire nails	kilogram	52.00
1220	Wire mesh (rabbit)	sqm	45.00
1221	20 mm dia holding down bolts	quintal	5,400.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	110.00
1224	Hard drawn steel wire	quintal	4,200.00
1225	Mild steel flat strap fitting	quintal	3,950.00
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	300.00
1228	Chequered terrazzo tiles 22 mm thick(medium shade)	sqm	260.00
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	225.00
1231	Extra for selected planks of second class teakwood	10 cudm	115.00
1234	Aluminium Plain Strip edging 57x12x3 mm	metre	130.00
1235	Diesel oil	litre	41.29
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	8.00
1238	Extra for selected planks of first class teakwood	10 cudm	140.00
1241	Commercial LPG in cylinder.	kg	51.00
1301	Bleaching powder	quintal	1,750.00
1304	Surface box for stop cock	each	100.00
1305	Surface box for sluice valve	each	185.00
1307	Surface box for water meter	each	205.00
1309	C.I. bracket for wash basin and sinks	pair	53.00
1314	C.P.brass chain with 32 mm dia rubber plug	each	26.00
1315	C.P.brass chain with 40 mm dia rubber plug	each	27.00
1330	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	33.00
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	17.00
1332	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	15.00
1334	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	25.00
1335	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	29.00
1336	Clearing eye with chain and lid 100 mm dia	each	44.00
1337	Clearing eye with chain and lid 150 mm dia	each	50.00
1339	Brass bib-cock 15 mm dia	each	165.00
1340	Brass bib-cock 20 mm dia	each	215.00
1342	Brass stop-cock 15 mm dia	each	165.00
1343	Brass stop-cock 20 mm dia	each	215.00
1350	Mosquito proof coupling of approved design	each	27.00

Code No	Description	Unit	Rate ₹
1352	C.I. cover and frame 300x300 mm inside	each	280.00
1353	C.I.cover without frame 300x300 mm inside i/c cover of 4.50 kg	each	200.00
1354	Rectangular cover 455x610 mm with frame (low duty)	each	1,415.00
1355	Rectangular cover 455x610 mm without frame (low duty)	each	980.00
1356	500 mm dia cover with frame (medium duty)	each	4,435.00
1357	500 mm dia cover without frame (medium duty)	each	2,210.00
1360	C.I.mouth, brass ferrule 15 mm dia	each	115.00
1361	C.I.mouth, brass ferrule 20 mm dia	each	145.00
1362	C.I.mouth, brass ferrule 25 mm dia	each	205.00
1363	Vitreous china foot rests 250x130x30 mm	pair	90.00
1364	C.I. grating 100x100 mm	each	15.00
1366	C.I. grating 150x150 mm	each	25.00
1367	C.I. grating 180x180 mm	each	30.00
1369	S.C.I. gully or nahani grating 100 mm dia	each	15.00
1373	Rubber insertions for 80 mm dia pipe joints	each	11.00
1374	Rubber insertions for 100 mm dia pipe joints	each	14.00
1375	Rubber insertions for 125 mm dia pipe joints	each	15.00
1376	Rubber insertions for 150 mm dia pipe joints	each	17.00
1377	Rubber insertions for 200 mm dia pipe joints	each	22.00
1378	Rubber insertions for 250 mm dia pipe joints	each	32.00
1379	Rubber insertions for 300 mm dia pipe joints	each	40.00
1380	Rubber insertions for 350 mm dia pipe joints	each	45.00
1381	Rubber insertions for 400 mm dia pipe joints	each	67.00
1382	Rubber insertions for 450 mm dia pipe joints	each	84.00
1383	Rubber insertions for 500 mm dia pipe joints	each	106.00
1384	Rubber insertions for 600 mm dia pipe joints	each	118.00
1392	Mirror of superior make glass 60x45 cm	each	290.00
1396	Vitreous china pedestal for wash basin	each	650.00
1397	Pig lead	kilogram	90.00
1464	S & S.C.I.standard specials up to 300 mm dia (heavy class)	quintal	3,450.00
1466	S & S.C.I.standard specials over 300 mm dia (heavy class)	quintal	3,550.00
1468	Flanged C.I. standard specials up to 300 mm dia(heavy class)	quintal	5,300.00
1470	Flanged C.I. standard specials over 300 mm dia(heavy class)	quintal	5,600.00
1472	Casing pipe 100 mm dia	metre	335.00
1532	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	240.00

Code No	Description	Unit	Rate ₹
1533	Flush pipe with union spreaders and clamps all in C.P. brass for double stall	each	380.00
1534	Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall	each	490.00
1535	Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall	each	570.00
1540	Flush pipe and spreaders G.I.for single set of one squatting plate urinal	each	170.00
1541	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	230.00
1542	Flush pipe and spreaders G.I.for range of three squatting plates urinal each	each	290.00
1543	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	365.00
1545	G.I. pipes 15 mm dia	metre	81.00
1546	G.I. pipes 20 mm dia	metre	97.00
1547	G.I. pipes 25 mm dia	metre	134.00
1548	G.I. pipes 32 mm dia	metre	167.00
1549	G.I. pipes 40 mm dia	metre	202.00
1550	G.I. pipes 50 mm dia	metre	254.00
1551	G.I. pipes 65 mm dia	metre	325.00
1552	G.I. pipes 80 mm dia	metre	426.00
1555	G.I. back (jam) nuts 25 mm dia	each	8.00
1559	G.I. back (jam) nuts 65 mm dia	each	18.00
1608	G.I. tees (equal) 25 mm	each	42.00
1612	G.I. tees (equal) 65 mm	each	270.00
1614	G.I. inlet connection	each	61.00
1616	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75mm dia	each	890.00
1617	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	990.00
1618	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150mm dia	each	1,630.00
1620	S.C.I. plain bend 75 mm dia	each	170.00
1621	S.C.I. plain bend 100 mm dia	each	210.00
1622	S.C.I. plain bend 150 mm dia	each	470.00
1624	S.C.I. bend with access door 75 mm dia	each	187.00
1625	S.C.I. bend with access door 100 mm dia	each	233.00
1627	S.C.I. plain single equal junctions 75x75x75 mm dia	each	240.00
1628	S.C.I. plain single equal junctions 100x100x100 mm dia	each	310.00

Code No	Description	Unit	Rate ₹
1630	S.C.I. single equal junctions 75x75x75 mm dia with access door	each	260.00
1631	S.C.I. single equal junctions 100x100x100 mm dia with access door	each	350.00
1633	S.C.I. plain double equal junctions 75x75x75x75 mm dia	each	335.00
1634	S.C.I. plain double equal junctions 100x100x100x100 mm dia	each	490.00
1636	S.C.I. double equal junctions 75x75x75x75 mm dia with access door	each	395.00
1637	S.C.I. double equal junctions 100x100x100x100 mm dia with access door	each	530.00
1639	Slotted cowl (terminal guard) 75 mm dia	each	137.00
1640	Slotted cowl (terminal guard) 100 mm dia	each	187.00
1641	G.I. Union 15 mm nominal bore	each	40.00
1642	G.I. Union 20 mm nominal bore	each	60.00
1643	G.I. Union 25 mm nominal bore	each	70.00
1644	G.I. Union 32 mm nominal bore	each	100.00
1645	G.I. Union 40 mm nominal bore	each	135.00
1646	G.I. Union 50 mm nominal bore	each	180.00
1647	G.I. Union 65 mm nominal bore	each	390.00
1648	G.I. Union 80 mm nominal bore	each	480.00
1649	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	4.45
1653	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	350.00
1656	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	390.00
1659	Sand cast iron S&S plain double unequal junctions : 100x100x75x75 mm dia	each	510.00
1662	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door	each	550.00
1666	Sand cast iron heel rest bend 75 mm dia	each	200.00
1667	Sand cast iron heel rest bend 100 mm dia	each	239.00
1669	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	290.00
1670	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	387.00
1672	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	382.00
1673	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	510.00
1674	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	466.00

Code No	Description	Unit	Rate ₹
1677	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	545.00
1682	S.C.I. door pieces 75 mm dia	each	253.00
1683	S.C.I. door pieces 100 mm dia	each	350.00
1685	S.C.I. collar 75 mm dia	each	98.00
1686	S.C.I. collar 100 mm dia	each	133.00
1687	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	26.00
1688	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	33.00
1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	33.00
1690	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	43.00
1693	S.C.I. hand pump	each	550.00
1700	R.C.C. pipes NP2 class 100 mm dia	metre	135.00
1701	R.C.C. pipes NP2 class 150 mm dia	metre	154.00
1702	R.C.C. pipes NP2 class 250 mm dia	metre	188.00
1703	R.C.C. pipes NP2 class 300 mm dia	metre	261.00
1704	R.C.C. pipes NP2 class 450 mm dia	metre	380.00
1705	R.C.C. pipes NP2 class 500 mm dia	metre	454.00
1706	R.C.C. pipes NP2 class 600 mm dia	metre	732.00
1707	R.C.C. pipes NP2 class 700 mm dia	metre	850.00
1709	R.C.C. pipes NP2 class 800 mm dia	metre	960.00
1710	R.C.C. pipes NP2 class 900 mm dia	metre	1,125.00
1711	R.C.C. pipes NP2 class 1000 mm dia	metre	1,420.00
1712	R.C.C. pipes NP2 class 1100 mm dia	metre	1,730.00
1713	R.C.C. pipes NP2 class 1200 mm dia	metre	1,760.00
1714	R.C.C. collars NP2 class 100 mm dia	each	20.00
1715	R.C.C. collars NP2 class 150 mm dia	each	25.00
1716	R.C.C. collars NP2 class 250 mm dia	each	40.00
1717	R.C.C. collars NP2 class 300 mm dia	each	49.00
1718	R.C.C. collars NP2 class 450 mm dia	each	75.00
1719	R.C.C. collars NP2 class 500 mm dia	each	89.00
1720	R.C.C. collars NP2 class 600 mm dia	each	109.00
1721	R.C.C. collars NP2 class 700 mm dia	each	121.00
1723	R.C.C. collars NP2 class 800 mm dia	each	172.00

Code No	Description	Unit	Rate ₹
1724	R.C.C. collarsNP2 class 900 mm dia	each	210.00
1725	R.C.C. collarsNP2 class 1000 mm dia	each	256.00
1726	R.C.C. collarsNP2 class 1100 mm dia	each	283.00
1727	R.C.C. collarsNP2 class 1200 mm dia	each	330.00
1854	Stoneware pipes grade A (60 cm long) 100 mm dia	each	36.00
1855	Stoneware pipes grade A (60 cm long) 150 mm dia	each	53.00
1856	Stoneware pipes grade A (60 cm long) 200 mm dia	each	91.00
1858	Stoneware pipes grade A (60 cm long) 250 mm dia	each	130.00
1859	Stoneware pipes grade A (60 cm long) 300 mm dia	each	190.00
1863	Fire clay kitchen sink: 600x450x250 mm	each	1,350.00
1871	White vitreous china laboratory sink450x300x150 mm	each	820.00
1872	White vitreous china laboratory sink600x450x200 mm	each	1,525.00
1875	White plastic seat (solid)with lid C.P.brass hinges and rubber buffers	each	310.00
1876	Black plastic seat (solid) with lid C.P.brass hinges and rubber buffers	each	293.00
1878	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	40.00
1879	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	55.00
1881	Spun yarn	kilogram	40.00
1882	Strainer brass 40 mm dia 1.5 metre long	each	495.00
1885	15 mm C.P.brass tap	each	170.00
1889	C.P.brass toilet paper holder of standard size	each	115.00
1891	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 50 mm dia	each	158.00
1893	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P.brass: 80 mm dia	each	200.00
1895	C.P.brass trap40 mm dia	each	125.00
1896	100 mm S.C.I. trap with vent heel	each	308.00
1897	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	263.00
1898	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	198.00
1900	S.W. gully trap P type 100x100 mm	each	70.00
1902	S.W. gully trap P type 150x100 mm	each	104.00
1904	S.W. gully trap P type 180x150 mm	each	195.00
1913	Vitreous china lipped front urinal	each	460.00
1915	Vitreous china squatting plate urinal	each	740.00
1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	190.00
1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	270.00
1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	315.00

Code No	Description	Unit	Rate ₹
1927	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	305.00
1928	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	370.00
1929	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	450.00
1930	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	650.00
1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	900.00
1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	1,550.00
1933	Gunmetal non-return valve-horizontal (screwed end) 25 mm dia	each	310.00
1934	Gunmetal non-return valve-horizontal (screwed end) 32 mm dia	each	400.00
1935	Gunmetal non-return valve-horizontal (screwed end) 40 mm dia	each	510.00
1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	780.00
1937	Gunmetal non-return valve-horizontal (screwed end) 65 mm dia	each	1,420.00
1938	Gunmetal non-return valve-horizontal (screwed end) 80 mm dia	each	2,030.00
1940	C.I.sluiice valve (with caps) class I : 100 mm dia	each	2,300.00
1941	C.I.sluiice valve (with caps) class I : 125 mm dia	each	2,600.00
1942	C.I.sluiice valve (with caps) class I : 150 mm dia	each	3,410.00
1943	C.I.sluiice valve (with caps) class I : 200 mm dia	each	6,550.00
1944	C.I.sluiice valve (with caps) class I : 250 mm dia	each	9,550.00
1945	C.I.sluiice valve (with caps) class I : 300 mm dia	each	13,500.00
1947	Vitreous china flat back wash basin 630x450 mm	each	675.00
1949	Vitreous china angle back wash basin 600x480 mm	each	580.00
1950	Vitreous china angle back wash basin 400x400 mm	each	405.00
1951	C.P. brass waste 32 mm	each	55.00
1952	C.P. brass waste 40 mm	each	62.00
1953	Vitreous china Indian type w.c. pan size 580 mm	each	340.00
1954	Vitreous china orrisa type w.c. pan size 580 mm	each	750.00
1955	Vitreous china pedestal type water closet	each	680.00
1956	Bolts and nuts 16 mm dia 60 mm long	each	10.00
1957	Bolts and nuts 16 mm dia 65 mm long	each	11.00
1958	Bolts and nuts 20 mm dia 65 mm long	each	13.00
1959	Bolts and nuts 20 mm dia 70 mm long	each	13.00
1960	Bolts and nuts 20 mm dia 75 mm long	each	14.00
1961	Bolts and nuts 20 mm dia 80 mm long	each	15.00
1962	Bolts and nuts 24 mm dia 85 mm long	each	27.00
1963	Bolts and nuts 24 mm dia 90 mm long	each	29.00
1964	Bolts and nuts 27 mm dia 100 mm long	each	35.00

Code No	Description	Unit	Rate ₹
1965	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications	each	1,250.00
1970	Vitreous china foot rests 250x125x25 mm	pair	100.00
1980	Fly ash	cum	7.75
1984	Common burnt clay F.P.S.(non modular) bricks tile class designation 10	1000 nos	3,100.00
1986	Common burnt clay modular bricks class designation 12.5	1000 nos	3,600.00
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	228.00
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	323.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm)	sqm	310.00
2407	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm)	sqm	450.00
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	340.00
2447	Hollock ballies 125 mm diameter	metre	35.00
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	44.00
2451	Brass cupboard lock 6 levers of approved quality, 40 mm size	each	65.00
2452	Brass cupboard lock 6 levers of approved quality, 50 mm size	each	70.00
2453	Brass cupboard lock 6 levers of approved quality, 65 mm size	each	75.00
2454	Brass cupboard lock 6 levers of approved quality, 75 mm size	each	95.00
2455	Brass hanging type door stopper 150 mm	each	60.00
2456	Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	535.00
2459	Anodised Aluminium hanging type door stopper	each	21.00
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts ,nuts and washers complete	each	46.00
2465	Anodised Aluminium Casement stay 250 mm	each	46.00
2466	Hollock wood in scantling	10 cudm	310.00
2467	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42 mm with screws, bolts, nuts and washers complete	each	145.00
2468	Nickeled Chromium Brass cupboard lock 40 mm size	each	62.00
2469	Nickeled Chromium Brass cupboard lock 50 mm size	each	70.00
2470	Nickeled Chromium Brass cupboard lock 65 mm size	each	82.00
2471	Nickeled Chromium Brass cupboard lock 75 mm size	each	103.00
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	960.00
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	775.00

Code No	Description	Unit	Rate ₹
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	845.00
2500	Extra for selected planks of second class deodar wood	10 cudm	73.00
2504	Kiln seasoning of timber	cum	680.00
2505	Hollock wood in planks	10 cudm	350.00
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1,000 nos	2,900.00
2603	Common burnt clay F.P.S. (non modular) bricks class designation 5.0	1,000 nos	2,450.00
2704	Aluminium Strip 40 mm wide and 2 mm thick	kilogram	210.00
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	130.00
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	675.00
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	340.00
2901	Stone Aggregate (Single size) : 100 mm nominal size	cum	750.00
2902	Stone Aggregate (Single size) : 80 mm nominal size	cum	750.00
2903	Stone chippings/ screenings 4.75 mm nominal size	cum	1,150.00
2904	Stone chippings/ screenings 150 micron nominal size	cum	1,150.00
2908	Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size	cum	330.00
2909	Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size	cum	360.00
2910	Stone chippings/ screenings 12.5/ 13.2 mm nominal size	cum	1,050.00
2911	Stone chippings/ screenings 10/ 11.2 mm nominal size	cum	1,050.00
2914	Solvent	kilogram	23.00
2916	Paving Asphalt VG -10 of approved quality	tonne	37,500.00
3002	Polyvinyl chloride sheet 400 micron thick	sqm	31.00
3004	Stone ware spouts 100 mm dia 60 cm long	each	33.00
3050	Galvanised steel corrugated sheets	quintal	5,075.00
3080	Gunmetal non-return valve-vertical (screwed end) 25 mm dia	each	320.00
3084	Gunmetal non-return valve-vertical (screwed end) 32 mm dia	each	490.00
3088	Gunmetal non-return valve-vertical (screwed end) 40 mm dia	each	680.00
3092	Gunmetal non-return valve-vertical (screwed end) 50 mm dia	each	930.00
3096	Gunmetal non-return valve-vertical (screwed end) 65 mm dia	each	1,650.00
3213	Vitreous china Surgeon type wash basin of size 660x460 mm	each	995.00
3228	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	each	130.00

Code No	Description	Unit	Rate ₹
3229	Vitreous china flat back wash basin 550x400 mm	each	530.00
3300	Gunmetal non-return valve-vertical (screwed end) 80 mm dia	each	2,630.00
3311	C.I.sluiice valve (with caps) class II : 100 mm dia	each	2,650.00
3314	C.I.sluiice valve (with caps) class II : 125 mm dia	each	3,200.00
3317	C.I.sluiice valve (with caps) class II : 150 mm dia	each	4,000.00
3320	C.I.sluiice valve (with caps) class II : 200 mm dia	each	9,100.00
3321	C.I.sluiice valve (with caps) class II : 250 mm dia	each	13,500.00
3326	C.I.sluiice valve (with caps) class II : 300 mm dia	each	17,000.00
3617	CP Brass Union 40 mm dia	each	175.00
3620	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long : 100 mm dia	each	1,130.00
3621	C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long : 75 mm dia	each	985.00
3624	S.C.I. S&S bends with access door 100 mm dia	each	270.00
3625	S.C.I. S&S bends with access door 75 mm dia	each	215.00
3628	S.C.I. S&S bend 100 mm dia	each	235.00
3629	S.C.I. S&S bend 75 mm dia	each	175.00
3634	S.C.I. S&S heel rest sanitary bend 100 mm dia	each	275.00
3635	S.C.I. S&S heel rest sanitary bend 75 mm dia	each	240.00
3640	S.C.I. S&S single equal junctions 100x100x100 mm	each	430.00
3641	S.C.I. S&S single equal junctions 75x75x75 mm	each	310.00
3644	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	465.00
3645	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	350.00
3650	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	565.00
3651	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	450.00
3654	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm	each	610.00
3655	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm	each	475.00
3660	S.C.I. S&S single unequal junctions 100x100x75 mm	each	560.00
3664	S.C.I. S&S single unequal junctions with access door 100x100x75 mm	each	630.00
3670	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	780.00
3674	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	850.00

Code No	Description	Unit	Rate ₹
3681	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	395.00
3682	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	303.00
3685	S.C.I. S&S double equal invert branch of required degree 100x100x100x 100 mm dia	each	525.00
3686	S.C.I. S&S double equal invert branch of required degree 75x75x75x 75 mm dia	each	405.00
3690	S.C.I. S&S single unequal invert branch of required degree 100x100x 75 mm dia	each	505.00
3695	S.C.I. S&S double unequal invert branch of required degree 100x100x 75x75 mm dia	each	700.00
3699	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	215.00
3707	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	270.00
3708	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	370.00
3712	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	270.00
3713	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	355.00
3716	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	335.00
3717	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	440.00
3728	S.C.I. S&S door pieces 100 mm dia	each	370.00
3729	S.C.I. S&S door pieces 75 mm dia	each	260.00
3733	S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm	each	190.00
3734	S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm	each	175.00
3738	S.C.I. S&S, collars 100 mm	each	185.00
3739	S.C.I. S&S, collars 75 mm	each	130.00
3746	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	215.00
3747	S.C.I. S&S, 75 mm offset for 100 mm dia pipe	each	246.00
3749	Vitreous china toilet paper holder of standard size	each	118.00
3860	560 mm dia cover with frame (Heavy duty)	each	8,460.00
3861	560 mm dia cover without frame (Heavy duty)	each	4,500.00
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B"	metre	220.00
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	240.00
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	270.00
4009	Mild steel tubes hot finished welded type	kilogram	48.00

Code No	Description	Unit	Rate ₹
4010	Mild steel tubes hot finished seamless type	kilogram	58.00
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	65.00
4012	Circular C.I. Box for ceiling fan	each	50.00
4013	Pulley 40 mm dia	each	25.00
4201	Aluminium primer	litre	72.00
4202	Red oxide Zinc chromate primer	litre	68.00
4203	Copper acetate	kilogram	270.00
4204	Hydrochloric acid	kilogram	32.00
4205	Copper chloride	kilogram	272.00
4206	Copper nitrate	kilogram	200.00
4207	Ammonium chloride	kilogram	15.00
5001	Mobil oil	litre	186.00
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	1,850.00
6007	Pink marble slab plain 18 mm thick	sqm	610.00
6010	Udaypur green marble slab plain 18 mm thick	sqm	660.00
6019	Black Zebra marble slab plain 18 mm thick	sqm	470.00
6501	Sand zone V (Jamuna)	cum	500.00
7001	Brass 100 mm mortice latch and lock with 6 levers without pair of handles	each	250.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	300.00
7004	Vitreous china flat back wash basin 450x300 mm	each	425.00
7005	Vitreous china 10 litres low level cistern without fittings	each	890.00
7006	Vitreous china 10 litres low level cistern with fittings	each	1,550.00
7008	F.P.S.(non modular) clay fly ash bricks class designation 7.5	1,000 nos	3,000.00
7009	12.5 mm thick tapered edge gypsum plain board	sqm	160.00
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	39.00
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	27.00
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	42.00
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	19.00
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	6.20
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	4.00

Code No	Description	Unit	Rate ₹
7016	Joint filler	kilogram	22.00
7017	Joint finisher	kilogram	24.00
7018	Joint tape roll	roll	140.00
7019	Dash fastener/Chemical Fastener	each	13.00
7020	All drive screws (for gypsum board)	100 nos	56.00
7021	Primer (for gypsum board)	litre	85.00
7022	Chlorpyriphos 20% E.C. / Lindane 20% E.C.	litre	160.00
7023	Chromium plated brackets (curtain rods)	each	7.00
7024	Acid Proof cement	tonne	8,100.00
7027	M.S. Butt hinges 125x90x4 mm	10 nos	105.00
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	sqm	230.00
7032	Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	315.00
7033	Nickel plated M.S. pipe 25 mm dia.	metre	75.00
7034	Nickel plated M.S. pipe 20 mm dia.	metre	67.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	6.00
7036	Nickel plated M.S. Brackets for curtain rod 25 mm	each	7.00
7040	Oxidised mild steel screws 35 mm	100 nos	40.00
7042	Mild steel conduit pipe (heavy type) ISI marked-20 mm dia.	metre	57.00
7043	Mild steel conduit pipe (heavy type) ISI marked-25 mm dia.	metre	66.00
7044	Rolling shutters of 80x0.90 mm laths	sqm	930.00
7045	Rolling shutters of 80x1.2 mm laths	sqm	1,010.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	270.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	305.00
7048	Rawl plug 50 mm (designation 10 nos)	each	10.00
7049	Teak wood lipping of size 25x3 mm in pelmets	metre	20.00
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	390.00
7056	Aluminium tee channel (heavy duty) with rollers and stop end	metre	45.00
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	58.00
7060	Hydraulic door closer tubular type Aluminium section body	each	810.00
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	21.00
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	18.00

Code No	Description	Unit	Rate ₹
7065	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	each	17.00
7068	Extra for providing grilled rolling shutters with 8 mm dia M.S. rod	sqm	225.00
7070	Chequered precast cement concrete tiles 22 mm thick using marble chips of size 6 mm - light shade using white cement	sqm	470.00
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	545.00
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 nos	520.00
7087	S.C.I. Tee 150 mm	each	505.00
7090	Expanded polystyrene type N- Normal	sqm	130.00
7091	Expanded polystyrene type - SE	sqm	155.00
7095	Stainless steel kitchen sink - with drain board bowl depth 250 mm	each	5,150.00
7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm.	each	4,900.00
7097	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm.	each	4,200.00
7098	Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm	each	2,900.00
7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	2,950.00
7102	Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm	each	2,750.00
7103	Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm	each	2,050.00
7104	Coloured Orissa pattern W.C. pan 580x440 mm	each	1,275.00
7105	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	1,080.00
7106	Coloured Vitreous china 10 lit. low level cistern	each	1,500.00
7107	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	475.00
7112	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	390.00
7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	260.00
7114	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	300.00
7115	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	670.00
7116	Hard board 6 mm thick	sqm	170.00
7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	21.00
7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	27.00

Code No	Description	Unit	Rate ₹
7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	26.00
7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	28.00
7123	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings	each	685.00
7126	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	975.00
7127	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern with all fittings	each	1,400.00
7128	S.W. intercepting trap 100 mm dia	each	170.00
7129	S.W. intercepting trap 150 mm dia	each	225.00
7130	Rectangular shape 600x 450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	690.00
7131	Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	600.00
7132	Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D. - 25	each	560.00
7133	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	660.00
7134	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	630.00
7135	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	1,030.00
7136	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1,150.00
7137	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1,780.00
7139	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	s1,930.00
7143	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	1,850.00
7151	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	1,580.00

Code No	Description	Unit	Rate ₹
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1,630.00
7155	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	1,385.00
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10cudm	665.00
7181	C.I. pile shoe	kilogram	46.00
7182	M.S. clamps for pile shoe	kilogram	42.00
7183	Bentonite	tonne	3,100.00
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	60.00
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	22.00
7188	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia	metre	67.00
7189	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia	metre	129.00
7190	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	16.00
7191	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	20.00
7192	uPVC coupler for uPVC drainage pipes 75 mm	each	34.00
7193	uPVC coupler for uPVC drainage pipes 110 mm	each	52.00
7194	uPVC pushfit coupler (single) 75 mm thick	each	50.00
7195	uPVC pushfit coupler (single) 110 mm thick	each	81.00
7196	uPVC single equal Tee (without door) 75x75x75 mm	each	95.00
7197	uPVC single equal Tee (without door) 110x110x110 mm	each	128.00
7198	uPVC single equal Tee (with door) 75x75x75 mm	each	115.00
7199	uPVC single equal Tee (with door) 110x110x110 mm	each	180.00
7208	uPVC bend 87.50, 75 mm bend	each	56.00
7209	uPVC bend 87.50, 110 mm bend	each	95.00
7212	uPVC plain shoe 75 mm bend	each	107.00
7213	uPVC plain shoe 110 mm bend	each	207.00
7214	uPVC pipe clip 75 mm bend	each	16.00
7215	uPVC pipe clip 110 mm bend	each	31.00
7231	Resin Bonded Glass wool 16 kg/m ³ 50 mm thick	sqm	145.00
7232	Resin Bonded Glass wool 24 kg/m ³ 50 mm thick	sqm	204.00

Code No	Description	Unit	Rate ₹
7233	Fibre glass tissue reinforcement Type II Grade I	sqm	65.00
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement	sqm	230.00
7237	Precast chequered cement tiles 22 mm thick medium shade using 50% white cement, 50% ordinary cement	sqm	360.00
7239	Epoxy paint	litre	315.00
7240	Fire retardant paint	litre	350.00
7241	Melamine polish	litre	250.00
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	1,630.00
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18mm thick	sqm	1,825.00
7246	Vertical load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50MT capacity pile	per test	33,200.00
7247	Vertical load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50MT and up to 100MT	per test	40,300.00
7248	Vertical load testing (INITIAL) of piles in accordance with IS : 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50MT	per test	48,500.00
7249	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity	per test	15,000.00
7250	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile	per test	23,000.00
7251	Cyclic vertical load testing of piles in accordance with IS : 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each	per test	29,500.00
7252	Lateral load testing of single pile in accordance with IS : 2911 part - IV for determining safe allowable lateral load on pile. Up to 50 tonne capacity	per test	15,000.00
7253	Lateral load testing of single pile in accordance with IS : 2911 part -IV for determining safe allowable lateral load on pile. Above 50 tonne capacity	per test	23,500.00
7254	Hardening compound	litre	37.00
7255	Road marking paint (spirit based)	litre	120.00
7256	Superior quality road marking paint (water based)	litre	170.00
7257	C.P. Brass bibcock 15 mm	each	325.00

Code No	Description	Unit	Rate ₹
7258	C.P. Brass long nose bibcock 15 mm	each	330.00
7259	C.P. Brass long body bibcock 15 mm	each	350.00
7260	C.P. Brass stop cock (concealed) 15 mm	each	350.00
7261	C.P. Brass angle valve 15 mm	each	370.00
7266	Pressed clay tiles 20 mm thick 250 x 250 mm size	1,000 nos	12,150.00
7267	Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm)	each	120.00
7268	Semi perforated ceiling tiles (600x600x12 mm)	each	120.00
7269	25 mm thick particle board	sqm	460.00
7270	30 mm thick prelaminated flush door shutter	sqm	850.00
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	39.00
7272	25 mm thick melamine faced prelaminated three layer particle board	sqm	870.00
7295	Granite of any colour, 18 mm thick (slab area upto 0.50 sqm)	sqm	1,550.00
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	1,640.00
7306	Aluminium T or L sections	kilogram	220.00
7307	For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	320.00
7309	Paving Asphalt of grade VG-30 of approved quality	tonne	38,500.00
7312	Expandable fastener with plastic sleeve and M.S. screws, 25 mm long	each	8.00
7313	Expandable fastener with plastic sleeve and M.S. screws, 32 mm long	each	9.00
7314	Expandable fastener with plastic sleeve and M.S. screws, 40 mm long	each	12.00
7315	Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	14.00
7318	Plasticizer / super plasticizer	kilogram	36.50
7319	Wall form panel 1250x500 mm	each	1,050.00
7320	Tie bolt 12 mm dia 100 mm length	each	38.00
7321	Tie bolt 12 mm dia 150 mm length	each	50.00
7322	Tie bolt 20 mm dia 150 mm length	each	62.00
7323	Tie bolt 20 mm dia 225 mm length	each	80.00
7324	Spring coil 12 mm	each	16.00
7325	Plastic cone 12 mm dia	each	18.00
7326	Corner angle 45x45x5 mm 1.50 m long	each	300.00
7327	100 mm channel shoulder 2.5 m long	each	1,160.00
7328	Double clip (bridge clip)	each	97.00
7329	Single clip	each	77.00
7330	M.S. tube 40 mm dia	metre	280.00
7331	Wall form panel 1250x450 mm	each	1,040.00

Code No	Description	Unit	Rate ₹
7332	Corner angle 45x45x5 mm 2.50 m long	each	340.00
7333	Column clamp 450x1070 mm	each	1,220.00
7334	Prop 2 m (2-3.5m)	each	830.00
7335	Binding wire	kilogram	53.00
7338	Gun metal cramp	kilogram	305.00
7339	Stainless steel cramp	kilogram	320.00
7340	Stainless steel pin	kg	180.00
7342	Adjustable span ESO+SI (2.35-3.40)	each	1,825.00
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1,150.00
7344	Beam clamp 300-380 mm (450-1070 mm)	each set	422.00
7345	Prop 4 m	each	1,170.00
7346	Double coupler	each	55.00
7347	Cadmium plated full threaded steel screws (30x4 mm dia.)	100 nos	28.00
7348	Aluminium washer 2 mm thick 15 mm dia	100 nos	10.00
7349	12 mm M.S. 'U' beading	metre	14.00
7354	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	110.00
7358	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessories and flush pipe)	each	640.00
7359	P.V.C. automatic flushing cistern 5 lts capacity	each	490.00
7361	P.V.C. automatic flushing cistern 10 lts capacity	each	530.00
7363	15 mm C.P. brass tap with elbow operation lever	each	600.00
7364	White glazed fire clay draining board 600x450x25 mm	each	525.00
7366	Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	230.00
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	60.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	metre	72.00
7375	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal	each	440.00
7376	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals	each	1,010.00
7377	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals	each	1,240.00
7378	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals	ach	1,800.00
7379	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS : 2556	each	1,440.00
7380	Precast R.C.C. grating with frame 500x450 mm horizontal grating	each	650.00
7381	Precast R.C.C. grating with frame 450x100 mm vertical grating	each	305.00

Code No	Description	Unit	Rate ₹
7382	Bitumen emulsion rapid setting (R.S.) confirming to IS : 8887	tonne	27,700.00
7385	3 mm thick translucent white acrylic plastic sheet	sqm	570.00
7386	12 mm thick particle board ceiling tile	sqm	260.00
7387	Spigot for standard jointing	kilogram	45.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	48.00
7389	Anodising 15 microns on aluminium sections	kilogram	40.00
7390	Neoprene/EPDM rubber gasket	metre	25.00
7391	Anodising 25 microns on aluminium sections	kilogram	50.00
7392	Powder coating 50 microns on aluminium sections	kilogram	64.00
7393	Polyester powder coating 50 microns on aluminium sections	kilogram	70.00
7394	Double action hydraulic floor spring with stainless steel cover plate	each	1,525.00
7395	6 mm dia. G.I. adjustable hangers including clips (up to 1.2 m length)	each	28.00
7396	Double action hydraulic floor spring with brass cover plate	each	1,675.00
7397	Base Jack	each	180.00
7398	Challies	each	800.00
7399	Cup locks	each	75.00
7400	15 mm PTMT bib cock	each	100.00
7401	15 mm PTMT bib cock with flange (fancy)	each	140.00
7402	15 mm PTMT bib cock long body with flange	each	160.00
7403	15 mm dia PTMT stop cock(male thread)	each	100.00
7405	20 mm dia. PTMT stop cock	each	130.00
7406	PTMT pillar cock	each	160.00
7407	PTMT push cock 15 mm dia	each	90.00
7408	PTMT push cock 12 mm dia 20 mm BSP	each	80.00
7409	PTMT grating 100 mm dia	each	31.00
7410	PTMT Pillar cock (fancy) 15mm foam flow	each	225.00
7411	125 mm grating with waste hole	each	37.00
7412	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm)	each	101.00
7415	Double acting air valve 50 mm	each	3,370.00
7416	Double acting air valve 80 mm	each	4,930.00
7417	Double acting air valve 100 mm	each	6,400.00
7418	Water meter (including testing charges) 80 mm	each	2,030.00
7419	Water meter (including testing charges) 100 mm	each	3,150.00
7420	Water meter (including testing charges) 150 mm	each	4,560.00
7421	Water meter (including testing charges) 200 mm	each	5,100.00

Code No	Description	Unit	Rate ₹
7422	Dirt box strainer 80 mm	each	2,620.00
7423	Dirt box strainer 100 mm	each	4,180.00
7424	Dirt box strainer 150 mm	each	5,420.00
7425	Dirt box strainer 200 mm	each	7,550.00
7426	Cat's eye	each	180.00
7427	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	390.00
7428	Water stops Dumb bell with central bulb	metre	351.00
7429	Kickers	metre	360.00
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	12.00
7431	Wedge expansion hold fastener 3/8" or 10 mm	each	14.00
7432	Wedge expansion hold fastener 1/2" or 12 mm	each	26.00
7439	8 mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	480.00
7442	Wheel 75 mm dia. 40 mm wide	each	60.00
7443	Aluminium single cleat of size 30x32x3 mm	each	13.00
7444	Aluminium grip strip of size 50x12x2 mm	each	10.00
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	790.00
7449	Aluminium U beading	kilogram	208.00
7451	Glass sheet (Pin headed) 4 mm thick	sqm	255.00
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	610.00
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	680.00
7466	Second class deodar teak wood lipping 30 mm wide x 12 mm thick	metre	30.00
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	480.00
7477	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	690.00
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)18 mm thick	sqm	810.00
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)25 mm thick	sqm	880.00
7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade)12 mm thick	sqm	720.00
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	39.00
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	49.00

Code No	Description	Unit	Rate ₹
7491	PTMT - Waste Coupling 31/32 mm	each	51.00
7492	PTMT - Waste Coupling 38/40 mm	each	64.00
7493	PTMT - Bottle Trap 31/32 mm	each	317.00
7494	PTMT - Bottle Trap 38/40 mm	each	345.00
7495	PTMT - Ball Cock 15 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	134.00
7496	PTMT - Ball Cock 20 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	195.00
7497	PTMT - Ball Cock 25 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	420.00
7498	PTMT - Ball Cock 40 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	780.00
7499	PTMT - Ball Cock 50 mm Complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	1,150.00
7500	PTMT - Angle Stop cock with Flange 15 mm	each	130.00
7501	PTMT - Swiveling shower 15 mm	each	87.00
7503	PTMT - Liquid Soap Container of 400 ml capacity	each	145.00
7504	PTMT - Towel Ring 215x200x37 mm	each	116.00
7505	PTMT - Towel Rail (450 mm)	each	192.00
7506	PTMT - Towel Rail (600 mm)	each	226.00
7507	PTMT - Shelf 450x124x36 mm	each	258.00
7508	PTMT - Urinal Spreader 15 mm	each	127.00
7509	PTMT - Soap Dish/Holder 138x102x75 mm	each	120.00
7512	PTMT - handle 125x34x24 mm	each	30.00
7513	PTMT - handle 150x34x24 mm	each	34.00
7514	PTMT - butt hinges 75x60x10 mm	each	42.00
7515	PTMT - butt hinges 100x75x10 mm	each	56.00
7516	PTMT - Tower bolt 152x42x18 mm	each	65.00
7517	PTMT - Tower bolt 202x42x18 mm	each	80.00
7518	PTMT - door catcher 72x42 mm	each	27.00
7552	Coir veneered board 4 mm thick	sqm	272.00
7553	Coir veneered board 6 mm thick	sqm	367.00
7555	Coir veneered board 12 mm thick	sqm	622.00
7556	Coir veneered board 18 mm thick	sqm	950.00
7651	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia	metre	797.00
7652	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 150 mm dia	metre	1,170.00
7653	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 200 mm dia	metre	1,595.00

Code No	Description	Unit	Rate ₹
7654	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia	metre	2,105.00
7655	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300 mm dia	metre	2,680.00
7656	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia	metre	3,225.00
7657	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400 mm dia	metre	4,350.00
7658	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450 mm dia	metre	5,085.00
7659	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia	metre	6,180.00
7660	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600 mm dia	metre	7,430.00
7661	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia	metre	10,050.00
7662	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia	metre	11,350.00
7663	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia	metre	11,990.00
7664	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia	metre	14,030.00
7665	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia	metre	15,750.00
7666	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia	each	26.00
7668	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia	each	36.00
7669	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia	each	62.00
7670	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia	each	73.00
7671	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia	each	103.00
7672	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia	each	127.00
7673	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia	each	234.00
7674	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia	each	260.00
7675	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia	each	285.00
7676	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia	each	352.00
7677	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia	each	542.00
7678	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia	each	636.00
7679	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia	each	684.00
7680	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia	each	915.00
7681	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia	each	1,138.00
7682	Ductile Iron K- 12 specials suitable for push on jointing upto 600 mm dia	quintal	11,850.00
7683	Ductile Iron K- 12 specials suitable for push on jointing over 600 mm dia	quintal	16,280.00
7684	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - upto 600 mm dia	quintal	12,540.00
7685	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia	quintal	17,580.00
7686	Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia	metre	2,025.00
7687	Ductile Iron Pipe Class K-9 flanges and welding 150 dia	metre	2,825.00
7688	Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia	metre	3,740.00

Code No	Description	Unit	Rate ₹
7689	Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia	metre	4,935.00
7690	Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia	metre	6,330.00
7691	Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia	metre	8,020.00
7692	Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia	metre	9,645.00
7693	Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia	metre	11,675.00
7694	Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia	metre	13,895.00
7695	Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia	metre	18,760.00
7696	Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia	metre	23,275.00
7697	S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia	metre	830.00
7698	S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia	metre	1,040.00
7699	S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia	metre	1,240.00
7700	S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia	metre	2,120.00
7701	S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia	metre	2,830.00
7702	S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia	metre	3,740.00
7703	S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia	metre	4,500.00
7704	S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia	metre	5,870.00
7705	S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia	metre	7,100.00
7706	S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia	metre	8,250.00
7707	S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia	metre	11,450.00
7708	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	quintal	5,850.00
7709	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	quintal	7,500.00
7710	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	quintal	8,200.00
7711	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300 mm dia	quintal	8,880.00
7712	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	metre	1,260.00
7713	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	metre	1,960.00
7714	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	metre	3,170.00
7715	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	metre	3,730.00
7716	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	metre	4,770.00
7717	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	metre	6,080.00

Code No	Description	Unit	Rate ₹
7718	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	metre	7,890.00
7719	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	metre	9,940.00
7720	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	metre	12,390.00
7721	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	metre	15,330.00
7722	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia	metre	708.00
7723	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia	metre	1,035.00
7724	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia	metre	1,415.00
7725	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia	metre	1,920.00
7726	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300 mm dia	metre	2,638.00
7727	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350 mm dia	metre	3,135.00
7728	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia	metre	3,714.00
7729	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia	metre	4,411.00
7730	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia	metre	5,214.00
7731	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia	metre	6,801.00
7732	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia	metre	8,739.00
7733	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia	metre	11,156.00
7734	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia	metre	14,617.00
7735	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000 mm dia	metre	15,485.00
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 nos	3,900.00
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 nos	3,300.00
7738	Calcium Silicate Bricks machine moulded confirming to I.S. 4139	1000 nos	3,600.00
7739	Modified Bitumen Refinery produced CRMB - 55	toone	38,500.00
7741	Modified Bitumen Refinery produced CRMB - 60	tonne	38,800.00
7742	Bitumen emulsion medium setting (M.S.) conforming to IS : 8887	tonne	28,200.00
7800	Ceramic Glazed Tiles Ist quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	295.00
7801	Ceramic Glazed Tiles Ist quality 300 x 300mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	360.00
7802	Ceramic Glazed Tiles Ist quality 300 x 300 mm in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	367.00
7803	Rectified - Ceramic Glazed Tiles Ist quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc	sqm	510.00
7804	Rectified - Ceramic Glazed Tiles Ist quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	535.00

Code No	Description	Unit	Rate ₹
7805	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm	each	3,630.00
7806	Salem Stainless steel AISI - 304 (18/8) Round basin 405 mm X 355 mm	each	1,690.00
7807	Salem Stainless steel AISI - 304 (18/8) Wash basin 530 mm X 345 mm each	each	1,470.00
7808	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	392.00
7809	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	424.00
7850	Agaria White marble slab plain 18 mm thick	sqm	1,090.00
7857	P.T.M.T. Grating square slit 150 mm	each	77.00
7858	P.T.M.T. Urinal cock 15mm dia	each	94.00
7859	P.T.M.T. Bib cock with nozzle 15 mm	each	133.00
7861	P.T.M.T. Stop cock (concealed) 15 mm	each	173.00
7862	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	33.00
7863	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	38.00
7864	P.T.M.T. extension nipple 15 mm	each	32.00
7865	P.T.M.T. extension nipple 20 mm	each	38.00
7866	P.T.M.T. extension nipple 25 mm	each	57.00
7900	Modular common burnt clay bricks of class designation 7.5	1,000 nos	3,150.00
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1,000 nos	4,150.00
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1,000 nos	3,800.00
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1,000 nos	3,550.00
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1,000 nos	3,700.00
8001	24 mm thick Factory made shutters with styles, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2,025.00
8002	30 mm thick Factory made shutters with styles, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2,125.00
8003	Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2,025.00
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2,420.00
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	173.00
8007	Factory made PVC rigid foam sheet 5 mm thick	sqm	632.00
8008	Factory made prelaminated PVC rigid foam sheet 5 mm thick	sqm	752.00

Code No	Description	Unit	Rate ₹
8010	48 mmX40 mmX1.5 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	142.00
8011	Factory made door frame PVC extruded sheet i/c carriage	metre	330.00
8012	Adhesive solvent cement	kg	165.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 nos	79.00
8200	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	59.00
8201	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	99.00
8203	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	167.00
8204	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	207.00
8205	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	245.00
8206	Bitumen primer for bitumen membrane	litre	71.00
8207	Geotextile 120 gram per sqm membrane	sqm	32.00
8210	Stainless steel screws 50 mm	100 nos	240.00
8211	Stainless steel screws 40 mm	100 nos	195.00
8212	Stainless steel screws 30 mm	100 nos	145.00
8214	Stainless steel screws 20 mm	100 nos	95.00
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 nos	240.00
8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 nos	215.00
8217	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 nos	145.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	125.00
8219	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS: 12817 marked	10 nos	320.00
8220	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS : 12817 marked	10 nos	230.00
8221	Stainless steel bult hinges (heavy weight) 75x50x2.5 mm IS : 12817 marked	10 nos	195.00
8222	M.S. heavy weight but hinges 125x90x4.0 mm IS : 1341 marked	10 nos	320.00
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 nos	160.00
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 nos	83.00
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 nos	70.00
8300	1216 mm PE-AL-PE Composite pressure pipe	metre	90.00
8301	1620 mm PE-AL-PE Composite pressure pipe	metre	111.00
8302	2025 mm PE-AL-PE Composite pressure pipe	metre	143.00
8303	2532 mm PE-AL-PE Composite pressure pipe	metre	193.00
8304	3240 mm PE-AL-PE Composite pressure pipe	metre	310.00
8305	4050 mm PE-AL-PE Composite pressure pipe	metre	335.00
8501	Polymer modified cementation coating	kilogram	127.00

Code No	Description	Unit	Rate ₹
8502	Fibre glass cloth	sqm	39.00
8504	Multi surface paint	litre	272.00
8505	Acrylic exterior paint	litre	130.00
8506	Premium Acrylic exterior paint	litre	230.00
8507	Textured exterior paint	litre	198.00
8508	Primer for cement paint	litre	63.00
8509	Special Primer (C.W.)	litre	83.00
8510	Metal Primer (U.G.)	litre	107.00
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	187.00
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	118.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 mtr long)	each	72.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 mtr. long)	each	34.00
8615	Hanger rod 4 mm thick	each	7.00
8616	Adjustment clip 85x30x0.8 mm	each	6.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	3.00
8618	Dash fastener 6 mm dia 50 mm long	each	11.00
8620	Vitrified floor tile 50x50 cm	sqm	735.00
8621	Vitrified floor tile 60x60 cm	sqm	865.00
8622	Vitrified floor tile 80x80 cm	sqm	1,070.00
8623	Vitrified floor tile 100x100 cm	sqm	1,630.00
8625	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 mm Outer dia	metre	32.00
8626	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20 mm Outer dia	metre	50.00
8627	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia	metre	76.00
8628	Poly propylene - Random - Co - poymer (PPR) pipes SDR 7.4 - 32 mm Outer dia	metre	124.00
8629	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40 mm Outer dia	metre	196.00
8630	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50 mm Outer dia	metre	286.00
8631	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63 mm Outer dia	metre	445.00
8632	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75 mm Outer dia	metre	640.00
8633	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90 mm Outer dia	metre	1,020.00

Code No	Description	Unit	Rate ₹
8634	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110 mm Outer dia	metre	1,070.00
8635	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 160 mm Outer dia	metre	2,255.00
8636	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia	metre	51.00
8637	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	metre	63.00
8638	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	metre	90.00
8639	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia	metre	120.00
8640	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia	metre	170.00
8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia	metre	280.00
8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	metre	835.00
8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia	metre	1,185.00
8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	metre	1,640.00
8645	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia	metre	2,870.00
8646	Silicon sealant	cartridge	307.00
8647	Stainless steal screws 30 mm x4 mm	100 nos	29.00
8648	Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap	sqm	2,290.00
8649	Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm	each	168.00
8650	Stainless steel (SS 304 grade) adjustable friction window stay 255 x 19 mm	each	189.00
8651	Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm	each	236.00
8652	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x 19 mm	each	437.00
8653	Stainless steel (SS 304 grade) adjustable friction window stay. 710 x 19 mm	each	793.00
8654	Masking tape	metre	1.55
8655	Autoclaved aerated cement (AAC) blocks	cum	2,025.00
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	455.00
8657	Bonding plaster for Gypsum panel	kg	53.00
8658	Mechanised Autoclaved fly ash sand lime non modular bricks	1,000 nos	4,300.00
8659	Water proof ply 12 mm thick	sqm	645.00
8660	Aluminium casement window fastener (Anodised AC 15)	each	40.00
8661	Aluminium casement window fastener (powder coated)	each	41.00
8662	Aluminium casement window fastener (polyester powder coated)	each	42.00
8663	Aluminium round shape handle (anodised AC 15)	each	49.00

Code No	Description	Unit	Rate ₹
8664	Aluminium round shape handle (powder coated)	each	54.00
8665	Aluminium round shape handle (polyester powder coated)	each	59.00
8666	Stainless steel screws 25 mm x 4 mm	cent	32.00
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	465.00
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	538.00
8669	Mangalore ridge tiles 20 mm thick	each	29.00
8670	Mangalore tiles 20 mm thick	each	10.20
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	435.00
8672	Precoated galvanised steel plain ridges	metre	440.00
8673	Precoated galvanised steel flashings / aprons	metre	440.00
8674	Precoated galvanised steel gutter	metre	455.00
8675	Precoated galvanised steel north light curves	metre	455.00
8676	Precoated galvanised steel barge board	metre	445.00
8677	Precoated galvanised steel crimp curve	sqm	475.00
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	37.00
8683	Red sand stone gang saw cut 30 mm thick	sqm	400.00
8684	White sand stone gang saw cut 30 mm thick	sqm	435.00
8685	Delineator	each	310.00
8686	Precast C.C. Kerb stone M - 25	cum	4,025.00
8687	Thermoplastic paint	kg	63.00
8688	Glass beads	kg	62.00
8689	Interlocking C.C. paver block (60 mm thick, M-30)	sqm	325.00
8690	High intensity retro - reflective sheet	sqm	1,525.00
8691	Punched tape concertina coil 600 m dia. 10m openable length (Total length 90m)	bundle	730.00
8692	RBT reinforced barbed wire	metre	8.50
8693	Turn buckle and strengthening bolt	each set	40.00
8694	Precast pavement slab 450 x 450 x 50 mm (M - 30)	each	55.00
8695	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm	sqm	258.00
8696	Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm	sqm	285.00
8697	Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm	sqm	340.00
8698	Stainless steel cramps (weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	84.00
8699	8 mm thick tapered edge calcium silicate board	sqm	223.00

Code No	Description	Unit	Rate ₹
8700	10 mm thick calcium silicate board	sqm	370.00
8703	Telescopic drawer channels 300 mm long	set	135.00
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/ cabinets shutter	each	8.00
8705	50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	135.00
8706	25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2,050.00
8707	Factory made glass reinforced plastic door frame 90x45 mm i/ c carriage	metre	365.00
8708	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	1,715.00
8710	Factory made solid PVC door frame 60 x 32 mm i/c carriage	metre	270.00
8711	28 mm factory made solid PVC panel door shutter i/c carriage	sqm	2,120.00
8713	Fiber glass reinforced plastic chajja	sqm	3,460.00
8714	Magnetic catcher triple strip vertical type	each	15.00
8715	Magnetic catcher double strip horizontal type	each	12.00
8716	100 mm mortice lock with 6 levers for aluminium door	each	310.00
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	160.00
8719	2nd class teak wood lipping/ moulded beading or Taj beading of size 18X5 mm	metre	25.00
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	39.00
8721	Perimeter channel having one flange of 20mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	25.00
8722	Nylon sleeves & wooden screws (40 mm)	each	1.90
8723	Counter sunk ribbed head screw 25 mm	cent	72.00
8724	12 mm thick marine plywood conforming to IS:710	sqm	825.00
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	860.00
8726	1.5 mm thick decorative laminated sheet	sqm	475.00
8727	1.0 mm thick decorative laminated sheet	sqm	350.00
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	1,975.00
8731	High polymer modified quickset tile adhesive	per kg	16.00
8732	Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
8733	Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40	kg	365.00
9999	Sundries	L.S.	1.49

Code No	Description	Unit	Rate ₹
NEW CODES			
0303	Cowdung	cum	47.00
0801	Silicon and acrylic emulsion	litre	140.00
0802	Acrylic distemper 1st quality , having VOC content less than 50 gm/litre	Kg	38.00
0803	Acrylic emulsion , having VOC content less than 50 gm/litre	litre	200.00
0804	Premium acrylic emulsion of interior grade, having VOC content less than 50 gm/litre	litre	350.00
0805	Synthetic enamel paint , having VOC (Volatile Organic Compound) content less than 150 gm/litre	litre	180.00
0806	Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 gms/litre	litre	103.00
0807	Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 gms/litre	litre	125.00
0808	Water thinnable cement primer for interior wall surface, having VOC content less than 50 gms/litre	litre	55.00
0809	Exterior primer	kilogram	40.00
0824	White cement based putty	kg	23.50
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	48.00
1182	Surkhi	cum	700.00
1200	Kiln seasoned selected sheesham wood planks	10 cudm	650.00
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	482.00
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	275.00
2394	Coupler 16 mm dia	each	67.50
2395	Coupler 20 mm dia	each	87.75
2396	Coupler 25 mm dia	each	129.50
2397	Coupler 28 mm dia	each	191.25
2398	Coupler 32 mm dia	each	230.50
2408	Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/ sqm)	sqm	700.00
2413	12 mm commercial ply	sqm	580.00
2414	18 mm thick block board with commercial ply veneering on both side	sqm	700.00
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 60 mm	10 nos	250.00
2507	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 80 mm	10 nos	293.00

Code No	Description	Unit	Rate ₹
2508	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 nos	364.00
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm	10 nos	425.00
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 160 mm	10 nos	560.00
2708	Truf Paver (500 x 500 x 40 mm)	sqm	1,080.65
2709	Ceremic Tiles Pieces for Crazy Flooring	quintal	130.00
3327	15 mm Battery Based Sensor Pillar Cock	each	5,822.50
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	325.00
4002	Stainless steel bolts/square bar and plates	kg	120.00
7028	12.5 mm thick Fully Perforated gypsum board	sqm	927.00
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	237.00
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	271.00
7050	PU Primer	sqm	40.75
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	419.40
7052	GI wire netting 3/4" x 24 G	sqm	26.25
7053	400 G polythene sheet	sqm	15.00
7072	Wall mounted water closet	each	4,548.00
7073	Adjustable Vetrious China Cistern with fittings	each	2,409.60
7074	White Vetrious China Waterless Urinal	each	13,208.00
7075	Cistern with fittings for Waterless Urinal	each	3,029.60
7076	White Vetrious Urinal	each	12,592.75
7178	Chemical ASTM C-type I	kg	100.00
7280	Waste plastic additive	tonne	40,000.00
7281	Chemical ASTM C-type II	kg	160.00
7743	M.S. pipe 150 mm dia casing pipe	metre	1,042.00
7744	M.S. pipe 200 mm dia casing pipe	metre	1,250.00
7745	PVC blind pipe 150 mm dia as per IS: 12818	metre	460.00
7746	PVC blind pipe 200 mm dia as per IS: 12818	metre	834.75
7747	M.S. cap 150 mm dia	each	150.00
7748	M.S. cap 200 mm dia	each	180.00
7749	M.S bail plug 150 mm dia	each	170.00
7750	M.S bail plug 200 mm dia	each	200.00
7751	PVC slotted pipe 150 mm dia as per IS: 12818	metre	465.00

Code No	Description	Unit	Rate ₹
7752	PVC slotted pipe 200 mm dia as per IS: 12818	metre	840.00
7753	Boulder 50 mm to 200 mm	cum	332.00
7754	Gravel 5 mm to 10 mm	cum	650.00
7755	Gravel 1.5 mm to 2 mm	cum	625.00
7756	Gravel 3 mm to 6 mm	cum	650.00
7757	M.S. pipe 100 mm dia casing pipe	metre	750.00
7758	uPVC blind pipe 100 mm dia as per IS: 12818	metre	385.00
7759	uPVC slotted pipe 100 mm dia as per IS: 12818	metre	390.00
7760	M.S. cap 100 mm dia	each	120.00
7761	M.S. bail plug 100 mm dia	each	140.00
7762	Precast R.C.C. perforated slab	each	750.00
7763	Water supply tanker of 5000 litre capacity	each	600.00
7764	M.S. socket 100 mm dia	each	165.00
7765	M.S. socket 150 mm dia	each	200.00
7766	M.S. socket 200 mm dia	each	250.00
7767	Stone cleaning chemical approved by ASI	litre	164.01
7768	Water repellent chemical approved by ASI	litre	1,586.25
7769	Stone surface strengthening chemical approved by ASI	litre	1,017.17
7770	Turpentine oil	litre	67.50
7771	Liquid Amonia 5%	litre	160.80
7772	Pea Gravel	cum	650.00
7775	Sodium pentachlorophenate	kilogram	630.00
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	Meter	450.00
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick	sqm	858.00
8590	Galvanised Steel main Tee ceiling section Size 24 x 38 x 0.33 mm (3 metre long)	each	192.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	125.00
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	77.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	39.00
8594	Galvanised Steel soffit cleat size 25x35x1.60 mm	each	3.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	0.55
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	894.00

Code No	Description	Unit	Rate ₹
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	998.00
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	809.00
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	906.00
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	468.00
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	484.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	meter	180.00
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	meter	155.00
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	meter	164.00
8607	Spring T-connector	each	5.00
8608	C Carrier Connector	each	11.00
8609	C Suspension Clip	each	11.00
8610	Wire Coupling Clip	each	9.00
8682	Epoxy Grout	Kg	500.00
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2,500.00
8712	30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2,120.00
8734	P.V.C. Single piece extruded door frame of profile size 50 mm x 47 mm with wall thickness of 5 mm	metre	340.00
8735	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2,088.00
8736	35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (Wood grain finished)	sqm	2,536.00
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	760.00
8738	Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermuculite based concrete mix	metre	978.00
8739	Fire rated door shuttere made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	4,850.00
8740	Fire seal Putty	kg	675.00
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	19,800.00
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/m2) with ceramic tape of suitable thickness and fire resistant primer coating	metre	247.00
8743	Matrix Mineral Board	metre	61.85

Code No	Description	Unit	Rate ₹
8744	Panic Bar / latch (Double point)	each	5,000.00
8745	65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	318.00
8746	37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2,225.00
8747	75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	327.00
8748	37 mm thick Factory made fusion welded shutter with style, rails and panels of PVC extruded section in wooden finish	sqm	2,300.00
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	150.00
8751	Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	100.00
8752	Zinc alloy rollers for uPVC windows	each	50.00
8753	Zinc alloy rollers for uPVC door	each	80.00
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	100.00
8755	Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	225.00
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	275.00
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	350.00
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	400.00
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	500.00
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm)	metre	158.00
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm)	metre	145.00
8762	uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm)	metre	175.00
8763	uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm)	metre	46.00
8764	uPVC extruded profile casement window glazing bead (12 mm x 18 mm)	metre	46.00
8765	uPVC extruded profile casement window Frame (67 mm x 62 mm)	metre	225.00
8766	uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm) (Style,rail and intermediate section)	metre	250.00
8767	uPVC extruded profile casement window glazing bead (35 mm x 18 mm)	metre	78.00
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm)	metre	235.00
8769	uPVC extruded profile Sliding window Sash (60 mm x 44 mm)	metre	212.00
8770	uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)	metre	45.00

Code No	Description	Unit	Rate ₹
8771	uPVC extruded profile Sliding Door Sash (80 mm x 44 mm)	metre	275.00
8772	Aluminium Track on bottom rail for uPVC window	metre	20.00
8773	Wool Pine for uPVC window	metre	15.00
8774	Aluminium Grill	kg	250.00
8775	Steel Galvanised tubular reinforcement for uPVC door/ window	metre	50.00
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00
8778	Toughened glass 12 mm thickness	sqm	1,800.00

BASIC RATES

0.4 CARRIAGE CODES

(Carriage by Mechanical Transport including loading, Unloading and stacking)

Note: - These rates are exclusive of contractor's profit and overhead charges.

Code No	Description	Unit	Rate ₹
2200	Steam coal	tonne	100.11
2201	Bricks	1,000 Nos.	233.60
2202	Stone aggregate below 40 mm nominal size	cum	87.60
2203	Coarse sand	cum	87.60
2204	Timber	cum	100.11
2205	Steel	tonne	77.87
2206	Stone aggregate 40 mm nominal size and above	cum	95.22
2207	Brick tiles	1,000 Nos.	140.16
2208	Lime	cum	87.60
2209	Cement	tonne	77.87
2211	Tar bitumen	tonne	87.60
2215	Soling stone & masonry stone	cum	103.06
2216	Stone blocks white & red sand stone & kota stone slab	tonne	77.87
2224	S.W. pipes100 mm dia	100 metre	116.80
2225	S.W. pipes150 mm dia	100 metre	233.60
2226	S.W. pipes200 mm dia	100 metre	389.33
2228	S.W. pipes250 mm dia	100 metre	667.43
2229	S.W. pipes300 mm dia	100 metre	834.29
2241	Good earth	cum	109.50
2242	Dump manure	cum	95.22
2260	Brick aggregate	cum	95.22
2261	Fine sand (1 part badarpur sand : 2 parts jamuna sand)	cum	87.60
2262	Fly ash	cum	87.60
2264	Rubbish	cum	87.60
2265	Moorum	cum	87.60
2266	Surkhi	cum	87.60
2267	Stone dust	cum	87.60
2268	Marble dust and marble chips	cum	87.60
2271	G.I. pipes below 100 mm dia	tonne	77.87
2273	A.C.sheet and accessories	tonne	77.87
2275	R.C.C. pipes 100 mm dia	100 metre	191.48

Code No	Description	Unit	Rate ₹
2281	R.C.C. pipes 150 mm dia	100 metre	319.12
2287	R.C.C. pipes 250 mm dia	100 metre	737.68
2290	R.C.C. pipes 300 mm dia	100 metre	911.78
2299	R.C.C. pipes 450 & 500 mm dia	100 metre	2,127.50
2302	G.I.sheet and accessories	tonne	77.87
2303	R.C.C. pipes 600, 700, 750 & 800 mm dia	100 metre	3,191.25
2308	Plaster of paris	tonne	77.87
2309	Cast iron fittings	tonne	77.87
2311	Red bajri	cum	87.60
2314	Barbed wire	tonne	77.87
2317	Sludge	cum	95.22
2319	Spun iron S & S pipes 100 mm dia	100 metre	191.48
2320	Spun iron S & S pipes 125 mm dia	100 metre	255.77
2321	Spun iron S & S pipes 150 mm dia	100 metre	319.12
2322	Spun iron S & S pipes 200 mm dia	100 metre	519.11
2323	Spun iron S & S pipes 250 mm dia	100 metre	737.68
2324	Spun iron S & S pipes 300 mm dia	100 metre	911.78
2325	Spun iron S & S pipes 350 mm dia	100 metre	1,276.50
2326	Spun iron S & S pipes 400 mm dia	100 metre	1,740.68
2327	Spun iron S & S pipes 450 mm dia	100 metre	2,127.50
2328	Spun iron S & S pipes 500 mm dia	100 metre	2,127.50
2329	Spun iron S & S pipes 600mm dia	100 metre	3,191.25
2330	C.I. pipes 500 mm dia	100 metre	2,127.50
2331	R.C.C. pipes 900 mm dia	100 metre	4,786.87
2332	R.C.C. pipes 1000 mm dia	100 metre	6,382.50
2333	R.C.C. pipes 1100 mm dia	100 metre	6,382.50
2334	R.C.C. pipes 1200 mm dia	100 metre	6,382.50
2335	Jamuna sand	cum	87.60
2341	Pig lead	tonne	77.87
2342	Solvent/ Diesel	quintal	8.76
2343	Ductile iron pipes (k7) 100 mm dia	100 metre	191.48
2344	Cast iron pipes 150 mm dia	100 metre	319.12
2345	Cast iron pipes 200 mm dia	100 metre	519.11
2346	Cast iron pipes 250 mm dia	100 metre	737.68
2347	Cast iron pipes 300 mm dia	100 metre	911.78
2348	Cast iron pipes 350 mm dia	100 metre	1,276.50

Code No	Description	Unit	Rate ₹
2349	Cast iron pipes 400 mm dia	100 metre	1,740.68
2350	Cast iron pipes 450 mm dia	100 metre	2,127.50
2351	Cast iron pipes 500 mm dia	100 metre	2,127.50
2352	Cast iron pipes 600 mm dia	100 metre	3,191.25
2353	Cast iron pipes 700 mm dia	100 metre	3,191.25
2355	Cast iron pipes 800 mm dia	100 metre	3,191.25
2356	Cast iron pipes 900 mm dia	100 metre	4,786.87
2357	Cast iron pipes 1000 mm dia	100 metre	6,382.50

SUB HEAD : 1.0

CARRIAGE OF MATERIALS

1.0 CARRIAGE OF MATERIALS

Data Sheet No 1 for Analysis of Rates

1.1 By Mechanical Transport including loading, unloading and stacking::

Code	Name	Unit	Rate ₹
0005	Hire charges of truck	Day	1600.00
0114	Beldar	Day	247.00
0115	Coolie	Day	247.00
1235	High Speed Diesel	Litre	41.29
5001	Mobile Oil	Litre	186.00

Lead in km	Ave- rage speed	Nos of Trips N=8/ (2L/S)+1	Nos of km Done in one Day (2NL+6)	Litres of Diesel consum ed @ 5 km. per Litre	Cost of Diesel (1235) @ ₹ per Litre	Litres of Mobil oil consumed @ 140 km. per Litre	Cost of Mobil oil (5001) @ ₹ per Litre	Cost of 6 Beldars (0114) @ ₹ per Day	Hire charges of truck (0005) @ ₹ per Day	Total Cost= 6+8+9+10 in ₹	Cost per Trip = col. 11/ col.3 in ₹	Increase of cost per km over previous km in ₹	Average cost per additional km after first 5, 10 and 20 km in ₹	
1		2	3	4	5	6	7	8	9	10	11	12	13	14
1	Km	16.00	Km	20.22	4.04	166.81	0.144	26.78	1482.00	1600.00	3275.59	460.70		
2	Km	17.00	Km	31.92	6.38	263.43	0.228	42.41	1482.00	1600.00	3387.84	522.81		
3	Km	17.50	Km	41.76	8.35	344.77	0.298	55.43	1482.00	1600.00	3482.20	584.26		
4	Km	18.00	Km	50.32	10.06	415.38	0.359	66.77	1482.00	1600.00	3564.15	643.35		
5	Km	18.50	Km	57.90	11.58	478.14	0.414	77.00	1482.00	1600.00	3637.14	700.80		
6	Km	19.00	Km	64.80	12.96	535.12	0.463	86.12	1482.00	1600.00	3703.24	755.76	54.96	
7	Km	19.50	Km	71.24	14.25	588.38	0.509	94.67	1482.00	1600.00	3765.05	807.95	52.19	
8	Km	20.00	Km	77.04	15.41	636.28	0.550	102.30	1482.00	1600.00	3820.58	860.49	52.54	51.34
9	Km	20.50	Km	82.68	16.54	682.94	0.591	109.93	1482.00	1600.00	3874.87	909.59	49.10	
10	Km	21.00	Km	88.00	17.60	726.70	0.629	116.99	1482.00	1600.00	3925.69	957.48	47.89	
11	Km	21.50	Km	92.90	18.58	767.17	0.664	123.50	1482.00	1600.00	3972.67	1005.74	48.25	
12	Km	22.00	Km	97.92	19.58	808.46	0.699	130.01	1482.00	1600.00	4020.47	1049.73	43.99	
13	Km	22.50	Km	102.46	20.49	846.03	0.732	136.15	1482.00	1600.00	4064.18	1095.47	45.74	
14	Km	23.00	Km	107.08	21.42	884.43	0.765	142.29	1482.00	1600.00	4108.72	1138.15	42.68	
15	Km	23.50	Km	111.30	22.26	919.12	0.795	147.87	1482.00	1600.00	4148.99	1182.05	43.90	
16	Km	24.00	Km	115.76	23.15	955.86	0.827	153.82	1482.00	1600.00	4191.68	1222.06	40.02	
17	Km	24.50	Km	119.90	23.98	990.13	0.856	159.22	1482.00	1600.00	4231.35	1263.09	41.03	42.27
18	Km	25.00	Km	124.08	24.82	1024.82	0.886	164.80	1482.00	1600.00	4271.62	1302.32	39.23	
19	Km	25.50	Km	127.98	25.60	1057.02	0.914	170.00	1482.00	1600.00	4309.02	1342.37	40.05	
20	Km	26.00	Km	132.00	26.40	1090.06	0.943	175.40	1482.00	1600.00	4347.46	1380.15	37.77	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	
21	Km	26.50	Km	3.09	135.78	27.16	1121.44	0.970	180.42	1482.00	1600.00	4383.86	1418.72	38.58
22	Km	27.00	Km	3.04	139.76	27.95	1154.06	0.998	185.63	1482.00	1600.00	4421.69	1454.50	35.78
23	Km	27.50	Km	2.99	143.54	28.71	1185.44	1.025	190.65	1482.00	1600.00	4458.09	1491.00	36.49
24	Km	28.00	Km	2.95	147.60	29.52	1218.88	1.054	196.04	1482.00	1600.00	4496.92	1524.38	33.38
25	Km	28.50	Km	2.90	151.00	30.20	1246.96	1.079	200.69	1482.00	1600.00	4529.65	1561.95	37.57
26	Km	29.00	Km	2.86	154.72	30.94	1277.51	1.105	205.53	1482.00	1600.00	4565.04	1596.17	34.22
27	Km	29.50	Km	2.83	158.82	31.76	1311.37	1.134	210.92	1482.00	1600.00	4604.29	1626.96	30.79
28	Km	30.00	Km	2.79	162.24	32.45	1339.86	1.159	215.57	1482.00	1600.00	4637.43	1662.16	35.20
29	Km	30.50	Km	2.76	166.08	33.22	1371.65	1.186	220.60	1482.00	1600.00	4674.25	1693.57	31.41
30	Km	31.00	Km	2.73	169.80	33.96	1402.21	1.213	225.62	1482.00	1600.00	4709.83	1725.21	31.64
34.51														

Notes

- 1 Number of trips in working day of 8 hours $N=8/\{(2L/S)+1\}$. Where L=Lead in Km., S=Speed in Km. per hour, 1 hour is allowed for loading / unloading.
- 2 Consumption of diesel taken at 5 Km. per litre.
- 3 Consumption of mobile oil taken at 140 Km. per litre.
- 4 In column 4 of 'km done' an allowance of 6.0 km. has been made for movement of truck from parking place to duty & back.
- 5
 - (i) Cost of diesel @ (1235) per litre
 - (ii) Cost of mobile oil @ (5001) per litre
 - (iii) Hire charges of truck @ (0005) for a day of 8 hours.

1.0 CARRIAGE OF MATERIALS

1.1 By Mechanical Transport including loading,unloading and stacking

S.No	Material	capacity per Trip	Net Qty Payable after deduction for loose-ness	Unit of rates	C.P. & Over heads @ 15%	Cost per Trip per unit					Beyond 5 km upto 10 km per km			Beyond 10 km upto 20 km per km			Remarks	
						1km	2km	3km	4km	5km								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	As per Col. 14 of Data Sheet			
						Net Qty Payable										Net Qty Payable		
1.1.1	Lime, moorum, building rubbish	8	8	cum	15%	66.23	75.15	83.99	92.48	100.74	7.38	6.08	4.96					
1.1.2	Earth	8	6.4	cum	15%	82.78	93.94	104.98	115.60	125.92	9.22	7.59	6.20					
1.1.3	Manure or sludge	8	7.36	cum	15%	71.98	81.69	91.29	100.52	109.50	8.02	6.60	5.39					
1.1.4	Excavated rock	8	4	cum	15%	132.45	150.31	167.98	184.96	201.48	14.76	12.15	9.92					
1.1.5	Sand, stone aggregate below 40 mm nominal size	8	8	cum	15%	66.23	75.15	83.99	92.48	100.74	7.38	6.08	4.96					
1.1.6	Stone aggregate 40 mm nominal size and above	8	7.36	cum	15%	71.98	81.69	91.29	100.52	109.50	8.02	6.60	5.39					
1.1.7	Soling stone	8	6.8	cum	15%	77.91	88.42	98.81	108.80	118.52	8.68	7.15	5.84					
1.1.8	Bricks	3000	3000	1000 Nos	15%	176.60	200.41	223.97	246.62	268.64	19.68	16.20	13.23					
1.1.9	Brick Tiles	5000	5000	1000 Nos	15%	105.96	120.25	134.38	147.97	161.18	11.81	9.72	7.94					
1.1.10	Cement, stone blocks, G.I., C.I., A.C., & C.C.pipes below 100 mm dia and other heavy materials	9	9	tonne	15%	58.87	66.80	74.66	82.21	89.55	6.56	5.40	4.41					
1.1.11	Steel	9	9	tonne	15%	58.87	66.80	74.66	82.21	89.55	6.56	5.40	4.41					
1.1.12	Timber	7	7	cum	15%	75.69	85.89	95.99	105.69	115.13	8.43	6.94	5.67					
1.1.13	Tar Bitumen	8	8	tonne	15%	66.23	75.15	83.99	92.48	100.74	7.38	6.08	4.96					
1.1.14	Solvent	80	80	qtl	15%	6.62	7.52	8.40	9.25	10.07	0.74	0.61	0.50					
1.1.15	Steam coal	7	7	tonne	15%	75.69	85.89	95.99	105.69	115.13	8.43	6.94	5.67					
1.1.16	S.W. pipe																	
1.1.16.1	100 mm dia	600	600	100 m	15%	88.30	100.21	111.98	123.31	134.32	9.84	8.10	6.61					
1.1.16.2	150 mm dia	300	300	100 m	15%	176.60	200.41	223.97	246.62	268.64	19.68	16.20	13.23					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.1.16.3	200 mm dia	180	180	100 m	15%	294.34	334.02	373.28	411.03	447.73	32.80	27.00	22.05	
1.1.16.5	250 mm dia	105	105	100 m	15%	504.58	572.61	639.91	704.62	767.54	56.23	46.29	37.79	
1.1.16.6	300 mm dia	84	84	100 m	15%	630.72	715.76	799.88	880.77	959.43	70.28	57.86	47.24	
1.1.16.7	350 mm dia	60	60	100 m	15%	883.01	1002.06	1119.83	1233.08	1343.20	98.40	81.01	66.14	
1.1.16.8	400 mm dia	42	42	100 m	15%	1261.44	1431.52	1599.76	1761.55	1918.85	140.57	115.73	94.48	
1.1.16.9	450 mm dia	33	33	100 m	15%	1605.47	1821.93	2036.06	2241.97	2442.18	178.90	147.29	120.25	
1.1.16.10	500 mm dia	30	30	100 m	15%	1766.02	2004.12	2239.67	2466.17	2686.39	196.79	162.02	132.27	
1.1.16.11	600 mm dia	24	24	100 m	15%	2207.53	2505.15	2799.59	3082.71	3357.99	245.99	202.53	165.34	
1.1.17	R.C.C. pipe, A.C. pipes, steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes													
1.1.17.1	100 mm dia	366	366	100 m	15%	144.76	164.27	183.58	202.15	220.20	16.13	13.28	10.84	
1.1.17.2	125 mm dia	274	274	100 m	15%	193.36	219.43	245.22	270.02	294.13	21.55	17.74	14.48	
1.1.17.3	150 mm dia	219.6	219.6	100 m	15%	241.26	273.79	305.97	336.91	366.99	26.88	22.13	18.07	
1.1.17.4	200 mm dia	135	135	100 m	15%	392.45	445.36	497.70	548.04	596.98	43.73	36.00	29.39	
1.1.17.5	250 mm dia	95	95	100 m	15%	557.69	632.88	707.26	778.79	848.33	62.15	51.16	41.77	
1.1.17.6	300 mm dia	76.86	76.86	100 m	15%	689.31	782.25	874.19	962.60	1048.55	76.81	63.24	51.63	
1.1.17.7	350 mm dia	54.9	54.9	100 m	15%	965.04	1095.15	1223.86	1347.63	1467.97	107.54	88.54	72.28	
1.1.17.8	400 mm dia	40.26	40.26	100 m	15%	1315.96	1493.38	1668.90	1837.68	2001.78	146.64	120.73	98.57	
1.1.17.9	450 mm & 500 mm dia	32.94	32.94	100 m	15%	1608.40	1825.25	2039.77	2246.06	2446.62	179.23	147.56	120.47	
1.1.17.10	600, 700, 750 & 800 mm dia	21.96	21.96	100 m	15%	2412.60	2737.87	3059.66	3369.08	3669.94	268.84	221.34	180.70	
1.1.17.11	900 mm dia	14.64	14.64	100 m	15%	3618.90	4106.81	4589.49	5053.63	5504.90	403.26	332.01	271.05	
1.1.17.12	1000, 1100 & 1200 mm dia	10.98	10.98	100 m	15%	4825.19	5475.74	6119.32	6738.17	7339.87	537.69	442.68	361.41	

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate ₹
0114	Beldar	Day	247.00
0115	Coolie	Day	247.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114/0115 Beldars (Male/Female) 7.67 Nos. @ ₹ 247.00 = ₹ 1894.49 (X)

1	Lime, moorum, earth, building rubbish etc.	35 cum
2	Sand, ballast and boulders	28 cum
3	Bricks	15000 nos
4	Brick tiles, Allahbad roofing tiles(flat or round)	24000 nos
5	Steam coal	30 tonnes

NOTE : 1.67 extra coolie(Female coolie) will be required for every additional lead of 50 metre 0115 coolie 1.67 Nos @ ₹ 247.00 = ₹ 412.49 (Y)

Lead Metre	Cost per 8 hours day	Increase in cost for every additional 50 metre or part thereof
	(X)	(Y)
50 metres	1894.49	412.49

S. No	Material	Capacity per Trip	Net Qty Payable after deduction for looseness	Unit of rates	C.P. & Over heads @ 15%	Cost per 8 hours day in ₹	Cost per unit in ₹	
1	2	3	4	5	6	7	cost for 1st 50 metres	cost for addl. 50 m or part thereof beyond 1 st 50 m upto 0.5 km
1.2.1	Lime, moorum, building rubbish	35 cum	35 cum	1 cum	15%	2178.66	62.25	13.55
1.2.2	Earth	35 cum	28 cum	1 cum	15%	2178.66	77.81	16.94
1.2.3	Manure or sludge	35 cum	32.2 cum	1 cum	15%	2178.66	67.66	14.73
1.2.4	Excavated rock	35 cum	17.5 cum	1 cum	15%	2178.66	124.50	27.11
1.2.5	Sand, stone aggregate below 40 mm nominal size	28 cum	28 cum	1 cum	15%	2178.66	77.81	16.94
1.2.6	Stone aggregate 40 mm nominal size and above	28 cum	25.9 cum	1 cum	15%	2178.66	84.12	18.32
1.2.7	Soling stone	28 cum	23.8 cum	1 cum	15%	2178.66	91.54	19.93
1.2.8	Bricks	15000 Nos	15000 Nos	1000 Nos	15%	2178.66	145.24	31.62
1.2.9	Brick Tiles	24000 Nos	24000 Nos	1000 Nos	15%	2178.66	90.78	19.77
1.2.10	Steam Coal	30 tonne	30 tonne	tonne	15%	2178.66	72.62	15.81

1.0 CARRIAGE OF MATERIALS

1.2 By Manual Labour including loading, unloading and stacking for lead less than 0.50 KM

Data Sheet for Analysis of Rates

Code	Name	Unit	Rate ₹
0114	Beldar	Day	247.00
0115	Coolie	Day	247.00

The following labour work for 8 hours a day will carry following material upto 1st 50 metre as given below:

0114 Beldars 9.20 Nos @ ₹ 247.00 = ₹ 2272.40 (X)

Quantity of material as per column 3 of table below will be carried in 50 metres lead including loading and unloading.

NOTE:- 1.35 extra Beldar will be required for every additional lead of 50 metre 0114 coolie 1.35 Nos @ ₹ 247.00 = ₹ 333.45 (Y)

S. No	Material	Capacity per Trip	Net Qty to be payable after deduction for looseness	Unit of Rates	C.P. & Over head @ 15%	Cost per 8 hours day ₹	Cost per unit ₹	
							Cost for 1st 50 metres	Cost for addl. 50 m or part thereof 1 st 50 m upto 0.50 km
1	2	3	4	5	6	7	8	9
1.2.11	Stone blocks ,G.I., C.I. pipes below 100 mm dia and other heavy material	46 t	46 t	1 tonne	15%	2613.26	56.81	8.34
1.2.12	Cement	57.99 t	57.99 t	1 tonne	15%	2613.26	45.06	6.61
1.2.13	Steel	27 t	27 t	1 tonne	15%	2613.26	96.79	14.20
1.2.14	Timber	42 cum	42 cum	1 cum	15%	2613.26	62.22	9.13
1.2.15	Tar, bitumen etc.	46 t	46 t	1 tonne	15%	2613.26	56.81	8.34
1.2.16	S.W. pipe							
1.2.16.1	100 mm dia	2298 m	2298 m	100 m	15%	2613.26	113.72	16.69
1.2.16.2	150 mm dia	1398 m	1398 m	100 m	15%	2613.26	186.93	27.43
1.2.16.3	200 mm dia	999 m	999 m	100 m	15%	2613.26	261.59	38.39
1.2.16.5	250 mm dia	600 m	600 m	100 m	15%	2613.26	435.54	63.91
1.2.16.6	300 mm dia	420 m	420 m	100 m	15%	2613.26	622.20	91.30
1.2.16.7	350 mm dia	300 m	300 m	100 m	15%	2613.26	871.09	127.82
1.2.16.8	400 mm dia	240 m	240 m	100 m	15%	2613.26	1088.86	159.78
1.2.16.9	450 mm dia	198 m	198 m	100 m	15%	2613.26	1319.83	193.67
1.2.16.10	500 mm dia	162 m	162 m	100 m	15%	2613.26	1613.12	236.71
1.2.16.11	600 mm dia	132 m	132 m	100 m	15%	2613.26	1979.74	290.51
1.2.17	R.C.C. pipes , Steel cylinder, R.C. pipes, C.I. pipes, C.I. pipes and unreinforced cement pipes							
1.2.17.1	100 mm dia	1702 m	1702 m	100 m	15%	2613.26	153.54	22.53
1.2.17.2	125 mm dia	1391 m	1391 m	100 m	15%	2613.26	187.87	27.57
1.2.17.3	150 mm dia	1208 m	1208 m	100 m	15%	2613.26	216.33	31.74
1.2.17.4	200 mm dia	805 m	805 m	100 m	15%	2613.26	324.63	47.64

1	2	3	4	5	6	7	8	9
1.2.17.5	250 mm dia	458 m	458 m	100 m	15%	2613.26	570.58	83.73
1.2.17.6	300 mm dia	366 m	366 m	100 m	15%	2613.26	714.01	104.77
1.2.17.7	350 mm dia	256 m	256 m	100 m	15%	2613.26	1020.80	149.79
1.2.17.8	400 mm dia	220 m	220 m	100 m	15%	2613.26	1187.85	174.30
1.2.17.9	450 mm & 500 mm dia	165 m	165 m	100 m	15%	2613.26	1583.79	232.40
1.2.17.10	600, 700, 750 & 800 mm dia	150 m	150 m	100 m	15%	2613.26	1742.17	255.65
1.2.18	Asbestos cement pipes							
1.2.18.1	50 mm dia	10064 m	10064 m	100 m	15%	2613.26	25.97	3.81
1.2.18.2	80 mm dia	3660 m	3660 m	100 m	15%	2613.26	71.40	10.48
1.2.18.3	100 mm dia	2562 m	2562 m	100 m	15%	2613.26	102.00	14.97
1.2.18.4	150 mm dia	1830 m	1830 m	100 m	15%	2613.26	142.80	20.95

SUB HEAD : 2.0
EARTH WORK

2.1 : Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed :

2.1.1 All Kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm and average depth 15 cm</i>				
0114	LABOUR:				
	Beldar	day	7.20	247.00	1,778.40
0115	Coolie	day	6.00	247.00	1,482.00
	TOTAL				3,260.40
	Add Water Charges @ 1%				32.60
	TOTAL				3,293.00
	Add CPOH @ 15%				493.95
	Cost of 100 sqm				3,786.95
	Say				3,786.95

2.2 : Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m :

2.2.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0114	Beldar	day	5.90	247.00	1,457.30
0115	Coolie	day	3.60	247.00	889.20
0101	Bhisti	day	0.40	260.00	104.00
0113	Chowkidar	day	0.008	247.00	1.98
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1,500.00	12.00
1235	Diesel oil	litre	0.144	41.29	5.95
2342	Carriage of Solvent / Diesel.	quintal	0.0014	8.76	0.01
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				2,474.51
	Add Water Charges @ 1%				24.75
	TOTAL				2,499.26
	Add CPOH @ 15%				374.89
	Cost of 10 cum				2,874.15
	Cost of 1 cum				287.42
	Say				287.40

2.3 : Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead up to 50 m and lift up to 1.5 m :

2.3.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0114	Beldar	day	2.20	247.00	543.40
0115	Coolie	day	3.60	247.00	889.20
0101	Bhisti	day	0.40	260.00	104.00
	Roller charges (one roller does 1850 sqm. of consolidation per day)				
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1,500.00	12.00
0113	Chowkidar	day	0.008	247.00	1.98
1235	Diesel oil	litre	0.144	41.29	5.95
2342	Carriage of Solvent / Diesel.	quintal	0.0014	8.76	0.01
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				1,560.61
	Add Water Charges @ 1%				15.61
	TOTAL				1,576.22
	Add CPOH @ 15%				236.43
	Cost of 10 cum				1,812.65
	Cost of 1 cum				181.27
	Say				181.25

2.4 Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	LABOUR:				
0113	Chowkidar	day	0.008	247.00	1.98
0003	Hire charges of Diesel Road Roller - 8 to 10 tonne	day	0.008	1,500.00	12.00
1235	Diesel oil	litre	0.144	41.29	5.95
2342	Carriage of Solvent / Diesel.	quintal	0.0014	8.76	0.01
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				22.65
	Add Water Charges @ 1%				0.23
	TOTAL				22.88
	Add CPOH @ 15%				3.43
	Cost of 10 cum				26.31
	Cost of 1 cum				2.63
	Say				2.65

2.5 Deduct for not watering the excavated earth for banking

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	<i>Details of cost for 10 cum.</i> LABOUR: Bhisti	day	0.40	260.00	104.00
	TOTAL				104.00
	Add Water Charges @ 1%				1.04
	TOTAL				105.04
	Add CPOH @ 15%				15.76
	Cost of 10 cum				120.80
	Cost of 1 cum				12.08
	Say				12.10

2.6 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.

2.6.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i> Average output of Hydraulic Excavator per hour = 30cum. MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.04125	7,500.00	309.38
0018	Hire and running charges of loader	day	0.04125	5,000.00	206.25
	LABOUR:				
0128	Mate	day	0.40	260.00	104.00
	Beldar/				
0115	Coolie	day	2.00	247.00	494.00
	TOTAL				1,113.63
	Add Water Charges @ 1%				11.14
	TOTAL				1,124.77
	Add CPOH @ 15%				168.72
	Cost of 10 cum				1,293.49
	Cost of 1 cum				129.35
	Say				129.35

2.7 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.

2.7.1 Ordinary rock

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i> MACHINERY				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.0625	7,500.00	468.75
0017	Hire and running charges of tipper	day	0.0625	1,700.00	106.25
0132	Rock Excavator	day	0.705	247.00	174.14
0133	Rock Breaker	day	1.59	247.00	392.73
0134	Rock Hole Driller	day	0.355	247.00	87.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.50	247.00	123.50
0115	Coolie	day	1.35	247.00	333.45
9999	Sundries	L.S.	10.79	1.49	16.08
	TOTAL				1,702.58
	Add Water Charges @ 1%				17.03
	TOTAL				1,719.61
	Add CPOH @ 15%				257.94
	Cost of 10 cum				1,977.55
	Cost of 1 cum				197.76
	Say				197.75

2.7.2 Hard rock (requiring blasting)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	7,500.00	937.50
0017	Hire and running charges of tipper	day	0.125	1,700.00	212.50
0132	Rock Excavator	day	1.06	247.00	261.82
0133	Rock Breaker	day	2.825	247.00	697.78
0134	Rock Hole Driller	day	0.885	247.00	218.60
0114	Beldar	day	0.45	247.00	111.15
0115	Coolie	day	1.35	247.00	333.45
0325	Blasting powder	kilogram	3.93	35.00	137.55
0326	Blasting fuse (fuse wire)	each	4.00	15.00	60.00
9999	Sundries	L.S.	16.12	1.49	24.02
	TOTAL				2,994.37
	Add Water Charges @ 1%				29.94
	TOTAL				3,024.31
	Add CPOH @ 15%				453.65
	Cost of 10 cum				3,477.96
	Cost of 1 cum				347.80
	Say				347.80

2.7.3 Hard rock (blasting prohibited)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	7,500.00	937.50
0017	Hire and running charges of tipper	day	0.125	1,700.00	212.50
0132	Rock Excavator	day	2.47	247.00	610.09
0133	Rock Breaker	day	6.00	247.00	1,482.00
0135	Stone Chiseller	day	1.06	260.00	275.60
0103	Blacksmith 2nd class	day	0.175	273.00	47.78
0114	Beldar	day	0.75	247.00	185.25
0115	Coolie	day	1.80	247.00	444.60
9999	Sundries	L.S.	16.12	1.49	24.02
	TOTAL				4,219.34
	Add Water Charges @ 1%				42.19
	TOTAL				4,261.53
	Add CPOH @ 15%				639.23
	Cost of 10 cum				4,900.76
	Cost of 1 cum				490.08
	Say				490.10

2.8 Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.

2.8.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.04125	7,500.00	309.38
0018	Hire and running charges of loader	day	0.04125	5,000.00	206.25
	LABOUR:				
0128	Mate	day	0.40	260.00	104.00
	Beldar/				
0115	Coolie	day	2.05	247.00	506.35
	TOTAL				1,125.98
	Add Water Charges @ 1%				11.26
	TOTAL				1,137.24
	Add CPOH @ 15%				170.59
	Cost of 10 cum				1,307.83
	Cost of 1 cum				130.78
	Say				130.80

2.9 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m.

2.9.1 Ordinary rock

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.0625	7,500.00	468.75
0017	Hire and running charges of tipper	day	0.0625	1,700.00	106.25
	LABOUR:				
0132	Rock Excavator	day	0.885	247.00	218.60
0133	Rock Breaker	day	1.765	247.00	435.96
0134	Rock Hole Driller	day	0.53	247.00	130.91
0114	Beldar	day	0.50	247.00	123.50
0115	Coolie	day	1.30	247.00	321.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				1,825.21
	Add Water Charges @ 1%				18.25
	TOTAL				1,843.46
	Add CPOH @ 15%				276.52
	Cost of 10 cum				2,119.98
	Cost of 1 cum				212.00
	Say				212.00

2.9.2 Hard rock (requiring blasting)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	7,500.00	937.50
0017	Hire and running charges of tipper	day	0.125	1,700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	1.24	247.00	306.28
0133	Rock Breaker	day	3.00	247.00	741.00
0134	Rock Hole Driller	day	1.06	247.00	261.82
0114	Beldar	day	0.50	247.00	123.50
0115	Coolie	day	1.30	247.00	321.10
0325	Blasting powder	kilogram	6.42	35.00	224.70
0326	Blasting fuse (fuse wire)	each	7.00	15.00	105.00
9999	Sundries	L.S.	18.85	1.49	28.09
	TOTAL				3,261.49
	Add Water Charges @ 1%				32.61
	TOTAL				3,294.10
	Add CPOH @ 15%				494.11
	Cost of 10 cum				3,788.21
	Cost of 1 cum				378.82
	Say				378.80

2.9.3 - Hard rock (blasting prohibited)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum.</i>				
	MACHINERY:				
0020	Hydraulic Excavator (3D) with driver and fuel	day	0.125	7,500.00	937.50
0017	Hire and running charges of tipper	day	0.125	1,700.00	212.50
	LABOUR:				
0132	Rock Excavator	day	2.65	247.00	654.55
0133	Rock Breaker	day	6.175	247.00	1,525.22
0135	Stone Chiseller	day	1.06	260.00	275.60
0103	Blacksmith 2nd class	day	0.175	273.00	47.78
0114	Beldar	day	0.75	247.00	185.25
0115	Coolie	day	1.50	247.00	370.50
9999	Sundries	L.S.	17.94	1.49	26.73
	TOTAL				4,235.63
	Add Water Charges @ 1%				42.36
	TOTAL				4,277.99
	Add CPOH @ 15%				641.70
	Cost of 10 cum				4,919.69
	Cost of 1 cum				491.97
	Say				491.95

2.10 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :

2.10.1 All kinds of soil

2.10.1.1 Pipes, cables etc, not exceeding 80 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180m length of pipe of an average dia. say 40mm.</i> Slope assumed -- 1 in 200. Earth work and filling- Minimum depth of trench 60cm. Average depth = $(0.6+1.50)/2 = 1.05$ Width for this depth = 0.45 cm $180 \times 0.45 \times 1.05 = 85.05$ cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	85.05	130.80	11,124.54(A)
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	83.80	7,127.19(A)
	TOTAL				18,251.73
	Cost of 180 metre length of pipe				18,251.73
	Cost of 1 metre				101.40
	Say				101.40

2.10.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 110m length of a pipe of an average dia. say 200mm.</i> Slope assumed 1 in 200. Earth work and filling- Minimum depth of trench = $0.75+0.20 = 0.95$ m Average depth = $(1.50+0.95)/2 = 1.225$ m Width = $0.40 + 0.20 = 0.60$ m $110 \times 0.60 \times 1.225 = 80.85$ cum 5% for collars = 4.04 cum Total = 84.89 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	84.89	130.80	11,103.61(A)
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	84.89	83.80	7,113.78(A)
	TOTAL				18,217.39
	Cost of 110 metre length of pipe				18,217.39
	Cost of 1 metre				165.61
	Say				165.60

2.10.1.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 60m length of pipe of an average dia. say 450mm.</i> Slope assumed 1 in 200. Earth work and filling - Minimum depth of trench = $0.75+0.45= 1.20\text{m}$ Average depth = $(1.50+1.20)/2 = 1.35$ Width = $0.40 + 0.45 = 0.85 \text{ m}$ $60 \times 0.85 \times 1.35 = 68.85 \text{ cum}$ 5% for collars = 3.44 cum Total = 72.29 cum				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	72.29	130.80	9,455.53(A)
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	72.29	83.80	6,057.90(A)
	TOTAL				15,513.43
	Cost of 60 metre length of pipe				15,513.43
	Cost of 1 metre				258.56
	Say				258.55

2.11 Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length of pipe of an average dia. say 200mm (rate in percentage)</i> Slope assumed 1 in 200. $100 \times 0.60 \times 1.75 = 105.00 \text{ cum}$ $200 \times 0.60 \times 2.00 = 240.00 \text{ cum.}$ Total = 345.00 cum. Collars 5% = 17.25 cum. Total = 362.25 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	362.25	130.80	47,382.30
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	362.25	83.80	30,356.55
2.6.1	$1/2 \times 200 \times 1.60 \times 1.00 = 160 \text{ cum}$ Rate as per Item Number 2.6.1 of SH: Earth work	cum	160.00	129.35	20,696.00
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	160.00	83.80	13,408.00
	Extra for additional lift $1/2 \times 200 \times 0.60 \times 1.50 = 135.00 \text{ cum.}$ collars @ 5% = 6.75 Total = 141.75 cum				
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work	cum	141.75	34.60	4,904.55
	Cost for 300m length of pipe				
	TOTAL = 116747.40				1,16,747.40(X)
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work	metre	300.00	165.60	49,680.00(Y)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cost for 300 m. length of pipe upto 1.50 m. depth Extra cost for 300 metre $X - Y = 1,167,47.40 - 49,680.00$ Extra cost for 1 metre $Z / 300 = 67067.40 / 300$ Percentage increase over item No. 2.10.1.2 $Z * 100 / Y = 67,067.40 * 100 / 49,680.00$ Cost of 1 metre Say				67,067.40 (Z) 223.56 135.00 135.00 135.00%

2.12 Extra for excavating trenches for pipes, cables, etc, in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 m length of pipe pipe of an average dia. say 200 mm (rate in percentage)</i> Slope assumed 1 in 200. Earth work and filling- $1 \times 100 \times 0.60 \times 2 = 120$ cum Collars 5% = 6 cum. Total = 126 cum.				
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work	cum	126.00	130.80	16,480.80
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	126.00	83.80	10,558.80
	Earth work $100 \times 1.60 \times 1.25 = 200$ cum				
2.6.1	Rate as per Item Number 2.6.1 of SH: Earth work	cum	200.00	129.35	25,870.00
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	200.00	83.80	16,760.00
	Extra for additional lift $1 \times 100 \times 0.60 \times 1.50 = 90$ cum $2 \times 0.50 \times 100 \times 0.60 \times 0.50 = 30$ cum Total = 120 cum Collare 5% = 6 Total = 126 cum.				
2.26.1	Rate as per Item Number 2.26.1 of SH: Earth work	cum	126.00	34.60	4,359.60
	Cost for 300m length of pipe TOTAL = 74029.20				
2.10.1.2	Rate as per Item Number 2.10.1.2 of SH: Earth work	metre	100.00	165.60	16,560.00(Y)
	Cost for 100 m. length of pipe upto 1.50 m. depth Extra cost for 100 metres $X - Y = 74029.20 - 16560.00$ Extra cost for 1 metre $Z / 100 = 57469.20 / 100$ Percentage increase over item No. 2.10.1.2 $Z * 100 / Y = 57469.20 * 100 / 16560.00$ Cost of 1 metre Say				57,469.20(Z) 574.69 347.04 347.04 347.00%

2.13 Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :

2.13.1 Ordinary rock

2.13.1.1 Pipes, cables etc. not exceeding 80 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.1	<i>Details of cost for 180m length of pipe of a average dia. say 40mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.10.1.1 Rate as per Item Number 2.9.1 of SH: Earth work	cum	85.05	212.00	18,030.60(A)
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	83.80	7,127.19(A)
0114	Extra labour for ramming of rock Beldar	day	2.00	247.00	494.00
	TOTAL				25,651.79
	Add Water Charges @ 1% except on A i.e on (25,651.79 - 25,157.79 =) 494.00				4.94
	TOTAL				25,656.73
	Add CPOH @ 15% except on A i.e on (25,656.73 - 25,157.79 =) 498.94				74.84
	Cost of 180 metre length of pipe				25,731.57
	Cost of 1 metre				142.95
	Say				142.95

2.13.1.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.1	<i>Details of cost for 80m length of pipe of an average dia. Say 200mm.</i> Slope assumed 1 in 200 Excavation- Minimum depth of trench. $0.75+0.15+0.20 = 1.10\text{m}$ Average depth = $(1.10 + 1.50)/2 = 1.30\text{m}$ Minimum width of trench = 0.90m $80 \times 0.90 \times 1.30 = 93.60 \text{ cum.}$ Rate as per Item Number 2.9.1 of SH: Earth work	cum	93.60	212.00	19,843.20(A)
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	93.60	83.80	7,843.68(A)
0114	Extra labour for ramming of rock Beldar	day	2.20	247.00	543.40
	TOTAL				28,230.28

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1% except on A i.e on (28,230.28 - 27,686.88 =) 543.40				5.43
	TOTAL				28,235.71
	Add CPOH @ 15% except on A i.e on (28,235.71 - 27,686.88 =) 548.83				82.32
	Cost of 80 metre length of pipe				28,318.03
	Cost of 1 metre				353.98
	Say				354.00

2.13.1.3 - Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30m length of pipe of an average dia. say 450mm.</i> Slope assumed 1 in 200. Excavation- Minimum depth of trench = 0.75+0.15+0.15 = 1.35m. Average depth = (1.35+ 1.50)/2 = 1.425 m. Width of trench = 0.90 m. 30x0.90x1.425 =38.475 cum. 5% for collors = 1.924 cum Total = 40.399 cum				
2.9.1	Rate as per Item Number 2.9.1 of SH: Earth work	cum	40.399	212.00	8,564.59(A)
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	83.80	3,385.44(A)
0114	Beldar	day	0.94	247.00	232.18
	TOTAL				12,182.21
	Add Water Charges @ 1% except on A i.e on (12,182.21 - 11,950.03 =) 232.18				2.32
	TOTAL				12,184.53
	Add CPOH @ 15% except on A i.e on (12,184.53 - 11,950.03 =) 234.50				35.17
	Cost of 30 metre length of a pipe				12,219.70
	Cost of 1 metre				407.32
	Say				407.30

2.13.2 Hard rock (requiring blasting)

2.13.2.1 Pipes, cables etc. not exceeding 80 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 180 m length of a pipe of a average dia. say 40mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.10.1.1				
2.9.2	Rate as per Item Number 2.9.2 of SH: Earth work	cum	85.05	378.80	32,216.94(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	85.05	83.80	7,127.19(A)
0114	Extra labour for ramming of rock Beldar	day	2.50	247.00	617.50
	TOTAL				39,961.63
	Add Water Charges @ 1% except on A i.e on (39,961.63 - 39,344.13 =) 617.50				6.18
	TOTAL				39,967.81
	Add CPOH @ 15% except on A i.e on (39,967.81 - 39,344.13 =) 623.68				93.55
	Cost of 180 metre length of pipe				40,061.36
	Cost of 1 metre				222.56
	Say				222.55

2.13.2.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	<i>Details of cost for 80 m length of a pipe of an average dia. say 200mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.13.1.2 Rate as per Item Number 2.9.2 of SH: Earth work	cum	93.60	378.80	35,455.68(A)
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	93.60	83.80	7,843.68(A)
0114	Extra labour for ramming of rock Beldar	day	2.75	247.00	679.25
	TOTAL				43,978.61
	Add Water Charges @ 1% except on A i.e on (43,978.61 - 43,299.36 =) 679.25				6.79
	TOTAL				43,985.40
	Add CPOH @ 15% except on A i.e on (43,985.40 - 43,299.36 =) 686.04				102.91
	Cost of 80 metre length of pipe				44,088.31
	Cost of 1 metre				551.10
	Say				551.10

2.13.2.3 - Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	<i>Details of cost for 30 m length of a pipe of an average dia. Say 450mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.13.1.3 Rate as per Item Number 2.9.2 of SH: Earth work Refilling, ramming and watering	cum	40.399	378.80	15,303.14(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	83.80	3,385.44(A)
0114	Extra labour for ramming of rock Beldar	day	1.17	247.00	288.99
	TOTAL				18,977.57
	Add Water Charges @ 1% except on A i.e on (18,977.57 - 18,688.58 =) 288.99				2.89
	TOTAL				18,980.46
	Add CPOH @ 15% except on A i.e on (18,980.46 - 18,688.58 =) 291.88				43.78
	Cost of 30 metre length of pipe				19,024.24
	Cost of 1 metre				634.14
	Say				634.15

2.13.3 Hard rock (blasting prohibited)

2.13.3.1 Pipes, cables etc. not exceeding 80 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.3	<i>Details of cost for 180 m length of a pipe of a average dia. say 40mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.10.1.1	cum	85.05	491.95	41,840.35(A)
2.25	Rate as per Item Number 2.9.3 of SH: Earth work	cum	85.05	83.80	7,127.19(A)
0114	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	day	2.50	247.00	617.50
	Extra labour for ramming of rock Beldar				49,585.04
	TOTAL				6.18
	Add Water Charges @ 1% except on A i.e on (49,585.04 - 48,967.54 =) 617.50				49,591.22
	TOTAL				93.55
	Add CPOH @ 15% except on A i.e on (49,591.22 - 48,967.54 =) 623.68				49,684.77
	Cost of 180 metre length of pipe				276.03
	Cost of 1 metre				276.05
	Say				

2.13.3.2 Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.3	<i>Details of cost for 80 m length of a pipe of an average dia. say 200mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No.2.13.1.2	cum	93.60	491.95	46,046.52(A)
	Rate as per Item Number 2.9.3 of SH: Earth work				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.25	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	93.60	83.80	7,843.68(A)
0114	Extra labour for ramming of rock Beldar	day	2.75	247.00	679.25
	TOTAL				54,569.45
	Add Water Charges @ 1% except on A i.e on (54,569.45 - 53,890.20 =) 679.25				6.79
	TOTAL				54,576.24
	Add CPOH @ 15% except on A i.e on (54,576.24 - 53,890.20 =) 686.04				102.91
	Cost of 80 metre length of pipe				54,679.15
	Cost of 1 metre				683.49
	Say				683.50

2.13.3.3 Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.3	<i>Details of cost for 30 m length of a pipe of an average dia. say 450mm.</i> Slope assumed 1 in 200 Excavation- Quantity same as in item No. 2.13.1.3	cum	40.399	491.95	19,874.29(A)
2.25	Rate as per Item Number 2.9.3 of SH: Earth work	cum	40.399	83.80	3,385.44 (A)
0114	Refilling, ramming and watering Rate as per Item Number 2.25 of SH: Earth work	cum	40.399	83.80	3,385.44 (A)
	Extra labour for ramming of rock Beldar	day	1.17	247.00	288.99
	TOTAL				23,548.72
	Add Water Charges @ 1% except on A i.e on (23,548.72 - 23,259.73 =) 288.99				2.89
	TOTAL				23,551.61
	Add CPOH @ 15% except on A i.e on (23,551.61 - 23,259.73 =) 291.88				43.78
	Cost of 30 metre length of pipe				23,595.39
	Cost of 1 metre				786.51
	Say				786.50

2.14 Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 1.5 m in depth but not exceeding 3 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length of a pipe of an average dia. say 200mm. (rate in percentage)</i> Slope assumed 1 in 200. Excavation-				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	100x0.90x1.50 =157.50 cum. 200x0.90x20.00 = 360.00 cum. = 517.50 cum. Rate as per Item Number 2.9.2 of SH: Earth work	cum	517.50	378.80	1,96,029.00
2.7.2	0.50x200x1.9x1 = 190 cum. Rate as per Item Number 2.7.2 of SH: Earth work	cum	190.00	347.80	66,082.00
2.25	Refilling, ramming and watering 517.50+190.00 = 707.50 cum. Rate as per Item Number 2.25 of SH: Earth work	cum	707.50	83.80	59,288.50
2.26.2	Extra for additional lift 0.50x300x0.90x1.50 = 202.50 cum. Rate as per Item Number 2.26.2 of SH: Earth work	cum	202.50	62.00	12,555.00
0114	Extra labour for ramming of rock Beldar TOTAL =	day	16.50	247.00	4,075.50(P) 3,38,030.00(S)
	Add for WC @ 1% on P $P * 1 / 100 = 4075.50 * 1 / 100$ TOTAL				40.76(Q)
	$S + Q = 338030.00 + 40.76$ Add for CPOH @ 15% on P + Q $(P + Q) * 15 / 100 = (4075.50 + 40.76)$ $* 15 / 100$				3,38,070.76 617.44 (R)
2.13.2.2	Cost for 300 m length of pipe $S + Q + R = 338030.00 + 40.76 + 617.44$ Rate as per Item Number 2.13.2.2 of SH: Earth work	metre	300.00	551.10	3,38,688.20(X) 1,65,330.00(Y)
	Extra cost for 300 m $X - Y = 338688.20 - 165330.00$ Extra cost for 1 metre $Z / 300 = 173358.20 / 300$ Percentage increase over item No. 2.13.2.2 $Z * 100 / Y = 173358.20 * 100 / 165330.00$ Cost of 1 metre Say				1,73,358.20(Z) 577.86 104.86 104.86 105%

2.15 Extra for excavating trenches for pipes, cables, etc. in ordinary / hard rock exceeding 3 m in depth but not exceeding 4.5 m (Rate is over corresponding basic item for depth up to 1.5 metre).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	<i>Details of cost for 100m length of a pipe of an average dia. say 200mm. (rate in percentage)</i> Slope assumed 1 in 200. Max, depth assumed 3.50m Excavation - 100x0.90x2 =180.00 cum. Rate as per Item Number 2.9.2 of SH: Earth work 100x1.90x1.25 = 237.50 cum	cum	180.00	378.80	68,184.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.7.2	Rate as per Item Number 2.7.2 of SH: Earth work Extra for additional lift $1 \times 100 \times 0.90 \times 1.50 = 135.00$ $2 \times 0.50 \times 100 \times 0.90 \times 0.5 = 45$ Total = 180 cum	cum	237.50	347.80	82,602.50
2.26.2	Rate as per Item Number 2.26.2 of SH: Earth work Refilling, ramming and watering $180 + 237.50 = 417.50$ cum	cum	180.00	62.00	11,160.00
2.25	Rate as per Item Number 2.25 of SH: Earth work Extra labour for ramming of rock	cum	417.50	83.80	34,986.50
0114	Beldar TOTAL = 199217.75 Add for WC @ 1% on P $P \times 1 / 100 = 2284.75 \times 1 / 100$ TOTAL $S + Q = 199217.75 + 22.85$ Add for CPOH @ 15% on P + Q $(P + Q) \times 15 / 100 = (2284.75 + 22.85) \times 15 / 100$ Cost for 100 m length of pipe $S + Q + R = 199217.75 + 22.85 + 346.14$	day	9.25	247.00	2,284.75(P) 1,99,217.75(S) 22.85(Q) 1,99,240.60 346.14(R)
2.13.2.2	Rate as per Item Number 2.13.2.2 of SH: Earth work Extra cost for 100 m $X - Y = 199586.74 - 55110.00$ Extra cost for 1 metre $Z / 100 = 144476.74 / 100$ Percentage increase over item No. 2.13.2.2 $Z \times 100 / Y = 144476.74 \times 100 / 55110.00$ Cost of 1 metre Say	metre	100.00	551.10	1,99,586.74(X) 55,110.00(Y) 1,44,476.74(Z) 1,444.77 262.16 262.16 262%

2.16 Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete (Measurements to be taken of the face area timbered).

2.16.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Details of cost for a trench 30m long and 1.5m deep. Area = $2 \times 30 \times 1.5 = 90$ sqm. MATERIAL: The material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks $90 \times 0.038 = 3.42$ cum = 3420 cudm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75$ cudm Wallings 100mmx 100mm of	10 cudm	213.75	250.00	5,343.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10 = 1.20 \text{ cum} = 1200 \text{ cudm}$ Qty taken for cost of using once after deducting for credit $= 1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ cudm}$	10 cudm	75.00	250.00	1,875.00
0302	Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.50 = 51 \text{ m}$ Qty taken for cost of using once after deducting for credit $= 51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875 \text{ m}$ CARRIAGE: Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125) \times 3 \times 51 = 0.63 \text{ cum}$ Total of carriage = $5.25 \times \frac{1}{4} = 1.3125 \text{ cum}$	metre	3.1875	37.00	117.94
2204	Carriage of timber	cum	1.3125	100.11	131.40
0112	Carpenter 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				7,891.69
	Add Water Charges @ 1%				78.92
	TOTAL				7,970.61
	Add CPOH @ 15%				1,195.59
	Cost of 90 sqm				9,166.20
	Cost of 1 sqm				101.85
	Say				101.85

2.16.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep.</i> <i>Area = $2 \times 30 \times 1.5 = 90 \text{ sqm}$.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks $90 \times 0.038 = 3.42 \text{ cum} = 3420 \text{ cudm}$ Qty taken for cost of using once after deducting for credit $= 3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75 \text{ cudm}$	10 cudm	213.75	250.00	5,343.75
1197	Walings 100 mmx 100mm of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10 = 1.20 \text{ cum} = 1200 \text{ cudm}$ Qty taken for cost of using once after deducting for credit $= 1200 \times \frac{1}{4} \times \frac{1}{4} = 75 \text{ cudm}$	10 cudm	75.00	250.00	1,875.00
0302	Safeda ballies 125 mm diameter and 1.50m long $2 \times 17 \times 1.50 = 51 \text{ m}$ Qty taken for cost of using once after deducting for credit $= 51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875 \text{ m}$	metre	3.1875	37.00	117.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	CARRIAGE: Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125)3 \times 51 = 0.63$ cum Total of carriage = $5.25 \times 4 = 1.3125$ cum.				
2204	Carriage of timber	cum	1.3125	100.11	131.40
0112	Carpenter 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	2.00	247.00	494.00
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				8,227.08
	Add Water Charges @ 1%				82.27
	TOTAL				8,309.35
	Add CPOH @ 15%				1,246.40
	Cost of 90 sqm				9,555.75
	Cost of 1 sqm				106.18
	Say				106.20

2.16.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep.</i> <i>Area = $2 \times 30 \times 1.5 = 90$ sqm.</i>				
	MATERIAL:				
	The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Poling boards of Second class kail wood in planks $90 \times 0.038 = 3.42$ cum = 340 cudm Qty taken for cost of using once after deducting for credit = $3420 \times \frac{1}{4} \times \frac{1}{4} = 213.75$ cudm	10 cudm	213.75	250.00	5,343.75
1197	Wallings 100mm x 100mm of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10 = 1.20$ cum = 1200 dm3 Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cudm	10 cudm	75.00	250.00	1,875.00
0302	Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.5 = 51$ m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.1875$ m	metre	3.1875	37.00	117.94
	CARRIAGE:				
2204	Poling boards = 3.42 cum Walling - = 1.20 cum. Balli struts: $3.14/4 \times (0.125)3 \times 51 = 0.63$ cum Total of carriage = $5.25 \times \frac{1}{4} = 1.3125$ cum. Carriage of timber	cum	1.3125	100.11	131.40
	LABOUR:				
0112	Carpenter 2nd class	day	1.50	273.00	409.50
0114	Beldar	day	4.00	247.00	988.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				8,985.88
	Add Water Charges @ 1%				89.86
	TOTAL				9,075.74
	Add CPOH @ 15%				1,361.36
	Cost of 90 sqm				10,437.10
	Cost of 1 sqm				115.97
	Say				115.95

2.17 Close timbering in case of shafts, wells, cesspits, manholes and the like including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered).

2.17.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a manhole 1.2mx1.0mx1.5m.</i> <i>Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks $6.60 \times 0.038 = 0.251$ cum = 251 cudm Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875$ cudm	10 cudm	15.6875	250.00	392.19
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045$ cum $2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037$ cum. Total Kail wood = 0.082 cum. = 82cudm Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125$ cudm	10 cudm	5.125	250.00	128.12
0302	Safeda ballies 125 mm diameter and 1.50m long) $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118$ m	metre	0.4118	37.00	15.24
2204	CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125) \times 2 \times 6.59 = 0.081$ cum. Total of carriage = $0.414 \text{ cum} \times \frac{1}{4} = 0.1035$ cum.	cum	0.1035	100.11	10.36
0112	Carriage of timber	day	0.06	273.00	16.38
0114	LABOUR: Beldar	day	0.12	247.00	29.64

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				596.00
	Add Water Charges @ 1%				5.96
	TOTAL				601.96
	Add CPOH @ 15%				90.29
	Cost of 6.6 sqm				692.25
	Cost of 1 sqm				104.89
	Say				104.90

2.17.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks $6.6 \times 0.038 = 0.251$ cum = 251 cudm Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875$ cudm	10 cudm	15.6875	250.00	392.19
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045$ cum $2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037$ cum. Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125$ cudm	10 cudm	5.125	250.00	128.12
0302	Safeda ballies 125 mm diameter and 1.5m long) $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118$ m	metre	0.4118	37.00	15.24
2204	CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125) \times 2 \times 6.59 = 0.081$ cum Total of carriage = 0.414 cum $\times \frac{1}{4} = 0.1035$ cum	cum	0.1035	100.11	10.36
0112	LABOUR: Carpenter 2nd class	day	0.12	273.00	32.76
0114	Beldar	day	0.25	247.00	61.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	5.46	1.49	8.14
	TOTAL				648.56
	Add Water Charges @ 1%				6.49
	TOTAL				655.05
	Add CPOH @ 15%				98.26
	Cost of 6.6 sqm				753.31
	Cost of 1 sqm				114.14
	Say				114.15

2.17.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks $6.6 \times 0.038 = 0.251$ cum = 251 cudm Qty taken for cost of using once after deducting for credit = $251 \times \frac{1}{4} \times \frac{1}{4} = 15.6875$ cudm	10 cudm	15.6875	250.00	392.19
1197	Walling of Second class kail wood in scantling $2 \times 2 \times 1.124 \times 0.10 \times 0.10 = 0.045$ cum $2 \times 2 \times 0.924 \times 0.10 \times 0.10 = 0.037$ cum. Total Kail wood = 0.082 cum. = 82 cudm Qty taken for cost of using once after deducting for credit = $82 \times \frac{1}{4} \times \frac{1}{4} = 5.125$ cudm	10 cudm	5.125	250.00	128.12
0302	Safeda ballies 125 mm diameter and 1.50m long $2 \times 2 \times 0.924 = 3.696$ $2 \times 2 \times 0.724 = 2.896$ Total of balli = 6.592m Qty taken for cost of using once after deducting for credit = $6.592 \times \frac{1}{4} \times \frac{1}{4} = 0.4118$ m	metre	0.4118	37.00	15.24
2204	CARRIAGE: Poling boards = 0.251 cum Walling = 0.082 cum. Balli struts $3.14/4 \times (0.125) \times 2 \times 6.59 = 0.081$ cum. Total of carriage = 0.414 cum $\times \frac{1}{4} = 0.1035$ cum	cum	0.1035	100.11	10.36
0112	LABOUR: Carpenter 2nd class	day	0.19	273.00	51.87
0114	Beldar	day	0.38	247.00	93.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	8.06	1.49	12.01
	TOTAL				703.65
	Add Water Charges @ 1%				7.04
	TOTAL				710.69
	Add CPOH @ 15%				106.60
	Cost of 6.6 sqm				817.29
	Cost of 1 sqm				123.83
	Say				123.85

2.18 Close timbering over areas including strutting, shoring and packing cavities (wherever required) etc. complete (Measurements to be taken of the face area timbered) :

2.18.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: 30 x 1.5 = 45 sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71 \text{ cum} = 1.710 \text{ cum}$ Qty taken for cost of using once after deducting for credit = $1.710 \times \frac{1}{4} \times \frac{1}{4} = 106.875 \text{ cum}$	10 cudm	106.875	250.00	2,671.88
1197	Wallings 100mmx 100mm of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30 \text{ cum}$ = 300 cudm Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75 \text{ cudm}$	10 cudm	18.75	250.00	468.75
0302	Raking struts Safeda ballies 125 mm diameter 17 x 1.50 = 25.5m Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59 \text{ m}$	metre	1.59	37.00	58.83
2204	CARRIAGE: Poling boards = 1.71 cum Walling = 0.30cum Raking struts $3.14/4 \times (0.125)^2 = 0.313 \text{ cum}$ Total of carriage = $2.323 \text{ cum} \times \frac{1}{4} = 0.581 \text{ cum}$	cum	0.581	100.11	58.17
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.50	247.00	123.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	31.46	1.49	46.88
	TOTAL				3,496.26
	Add Water Charges @ 1%				34.96
	TOTAL				3,531.22
	Add CPOH @ 15%				529.68
	Cost of 45 sqm				4,060.90
	Cost of 1 sqm				90.24
	Say				90.25

2.18.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: $30 \times 1.5 = 45$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71$ cum = 1710 cudm Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875$ cudm	10 cudm	106.875	250.00	2,671.88
1197	Walling of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30$ cum = 300 cudm Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75$ cudm	10 cudm	18.75	250.00	468.75
0302	Raking struts Safeda ballies 125 mm diameter $17 \times 1.5 = 25.5$ m Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59$ m CARRIAGE: Poling boards = 1.71 cum Walling = 0.30 cum Raking struts $3.14/4 \times (0.125)^2 = 0.313$ cum Total of carriage = 2.323 cum $\times \frac{1}{4} = 0.581$ cum	metre	1.59	37.00	58.83
2204	Carriage of timber	cum	0.581	100.11	58.17
	LABOUR:				
0112	Carpenter 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	34.06	1.49	50.75
	TOTAL				3,691.88
	Add Water Charges @ 1%				36.92
	TOTAL				3,728.80
	Add CPOH @ 15%				559.32
	Cost of 45 sqm				4,288.12
	Cost of 1 sqm				95.29
	Say				95.30

2.18.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: 30 x 1.5 = 45 sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks 250x38mm : $45 \times 0.038 = 1.71 \text{ cum} = 1710 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $1710 \times \frac{1}{4} \times \frac{1}{4} = 106.875 \text{ cudm}$	10 cudm	106.875	250.00	2,671.88
1197	Walling of Second class kail wood in scantling 100x100mm : $30 \times 0.10 \times 0.10 = 0.30 \text{ cum} = 300 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $300 \times \frac{1}{4} \times \frac{1}{4} = 18.75 \text{ cudm}$	10 cudm	18.75	250.00	468.75
0302	Raking struts Safeda ballies 125 mm diameter $17 \times 1.50 = 25.5 \text{ m}$ Qty taken for cost of using once after deducting for credit = $25.5 \times \frac{1}{4} \times \frac{1}{4} = 1.59 \text{ m}$ CARRIAGE: Poling boards = 1.71 cum Walling = 0.30 cum. Raking struts $3.14/4 \times (0.125)^2 = 0.313 \text{ cum}$ Total of carriage = $2.323 \text{ cum} \times \frac{1}{4} = 0.581 \text{ cum}$	metre	1.59	37.00	58.83
2204	Carriage of timber	cum	0.581	100.11	58.17
0112	LABOUR: Carpenter 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	1.50	247.00	370.50
9999	Sundries	L.S.	47.58	1.49	70.89
	TOTAL				3,903.77
	Add Water Charges @ 1%				39.04
	TOTAL				3,942.81
	Add CPOH @ 15%				591.42
	Cost of 45 sqm				4,534.23
	Cost of 1 sqm				100.76
	Say				100.75

2.19 Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position (Face area of timber permanently left to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: 2 x 30 x 1.5 = 90 sqm.</i>				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	MATERIAL: Poling boards of Second class kail wood in planks $90 \times 0.038 = 3.42 \text{ cum} = 3420 \text{ cudm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $3420 - 427.5$ $= 2992.5 \text{ cudm}$	10 cudm	2,992.50	250.00	74,812.50
1197	Walings $100\text{mm} \times 100\text{mm}$ of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10$ $= 1.20 \text{ cum} = 1200 \text{ cudm}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $1200 - 150 = 1050 \text{ cudm}$	10 cudm	1,050.00	250.00	26,250.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.5 = 51\text{m}$ Less @ 1/8 of Qty as timber is supposed to be used once before = $51 - 6.37 = 44.63 \text{ m}$	metre	44.63	37.00	1,651.31
2204	Carriage of timber Poling boards = 3.42 cum Walling = 1.20 cum. Balli struts: $3.14/4 \times (0.125)^2 \times 51 = 0.63 \text{ cum}$ $= 5.25 \text{ cum}$ Taking half = $5.25 \times 14 = 2.675 \text{ cum}$	cum	2.675	100.11	267.80
	TOTAL				1,02,981.61
	Add Water Charges @ 1%				1,029.82
	TOTAL				1,04,011.43
	Add CPOH @ 15%				15,601.71
	Cost of 90 sqm				1,19,613.14
	Cost of 1 sqm				1,329.03
	Say				1,329.05

2.20 Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered):

2.20.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: $2 \times 30 \times 1.5 = 90 \text{ sqm}$.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling board of Second class kail wood in planks $1.5\text{m} \times 0.25 \times 0.038\text{m}$ $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14 \text{ cum}$ $= 1140 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4}$ $= 71.25 \text{ cudm}$	10 cudm	71.25	250.00	1,781.25

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197	Second class kail wood in scantling Walling 100mmx100mm : 4x30mx0.1mx0.1m = 1.20cum= 1200 cumdm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cumdm	10 cumdm	75.00	250.00	1,875.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long) -2x17x1.50 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m CARRIAGE: Poling boards =1.14 cum Walling =1.20 cum Bailies struts- $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74$ cum	metre	3.18	37.00	117.66
2204	Carriage of timber LABOUR:	cum	0.74	100.11	74.08
0112	Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				4,069.18
	Add Water Charges @ 1%				40.69
	TOTAL				4,109.87
	Add CPOH @ 15%				616.48
	Cost of 90 sqm				4,726.35
	Cost of 1 sqm				52.52
	Say				52.50

2.20.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a trench 30m long and 1.5m deep Area: $2 \times 30 \times 1.5 = 90$ sqm.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks 1.50mx0.25x0.038m $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14$ cum = 1140 cumdm Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25$ cumdm	10 cumdm	71.25	250.00	1,781.25
1197	Wallings of Second class kail wood in scantling 100mmx 100mm: $4 \times 30 \times 0.1 \times 0.1 = 1.20$ cum= 1200 cumdm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75$ cumdm	10 cumdm	75.00	250.00	1,875.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long $2 \times 17 \times 1.5 = 51\text{m}$ Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18\text{ m}$	metre	3.18	37.00	117.66
2204	CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Ballies struts $3.14/4 \times (0.125)^2 = 0.63\text{ cum}$ Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74\text{ cum}$	cum	0.74	100.11	74.08
0112	LABOUR: Carpenter 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	33.15	1.49	49.39
	TOTAL				4,280.88
	Add Water Charges @ 1%				42.81
	TOTAL				4,323.69
	Add CPOH @ 15%				648.55
	Cost of 90 sqm				4,972.24
	Cost of 1 sqm				55.25
	Say				55.25

2.20.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: $2 \times 30 \times 1.5 = 90\text{ sqm}$.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Poling boards of Second class kail wood in planks $1.50\text{m} \times 0.25 \times 0.038\text{m}$: $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14\text{ cum} = 1140\text{ cudm}$ Qty taken for cost of using once after deducting for credit = $1140 \times \frac{1}{4} \times \frac{1}{4} = 71.25\text{ cudm}$	10 cudm	71.25	250.00	1,781.25
1197	Wallings of Second class kail wood in scantling $100\text{mm} \times 100\text{mm}$: $4 \times 30 \times 0.1 \times 0.1 \text{m} = 1.20\text{cum}$ = 1200 cudm Qty taken for cost of using once after deducting for credit = $1200 \times \frac{1}{4} \times \frac{1}{4} = 75\text{ cudm}$	10 cudm	75.00	250.00	1,875.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m	metre	3.18	37.00	117.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	long)-2x17x1.5 = 51m Qty taken for cost of using once after deducting for credit = $51 \times \frac{1}{4} \times \frac{1}{4} = 3.18$ m CARRIAGE: Poling boards = 1.14 cum Walling = 1.20 cum Bailies struts $3.14/4 \times (0.125)^2 = 0.63$ cum Total of carriage = 2.97 cum $\times \frac{1}{4} = 0.74$ cum Carriage of timber	cum	0.74	100.11	74.08
0112	LABOUR: Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.75	247.00	432.25
9999	Sundries	L.S.	46.67	1.49	69.54
	TOTAL				4,622.78
	Add Water Charges @ 1%				46.23
	TOTAL				4,669.01
	Add CPOH @ 15%				700.35
	Cost of 90 sqm				5,369.36
	Cost of 1 sqm				59.66
	Say				59.65

2.21 Open timbering in case of shafts, wells, cesspits, manholes and the like including strutting and shoring complete (Measurements to be taken of the face area timbered):

2.21.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a manhole 1.2m x 1.0m x 1.5m.</i> <i>Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm wide and 38mm thick $6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86 cum Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ cum	10 cudm	5.375	250.00	134.38
1197	Walling 100mm x 100mm of Second class kail wood in scantling 4x 1.2x0.1 x 0.1 = 0.048 cum = 48 cudm Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ cudm	10 cudm	3.00	250.00	75.00
0302	Struts of Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4)$ = 6.4m Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.40$ m	metre	0.40	37.00	14.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Bailies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079$ cum Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum Carriage of timber	cum	0.053	100.11	5.31
0112	LABOUR: Carpenter 2nd class	day	0.03	273.00	8.19
0114	Beldar	day	0.06	247.00	14.82
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				255.21
	Add Water Charges @ 1%				2.55
	TOTAL				257.76
	Add CPOH @ 15%				38.66
	Cost of 6.6 sqm				296.42
	Cost of 1 sqm				44.91
	Say				44.90

2.21.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: $2 \times (1.2+1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86cudm Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ cudm	10 cudm	5.375	250.00	134.38
1197	Walling 100mmx100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.1 \times 0.1 = 0.048$ cum = 48 cudm Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ cudm	10 cudm	3.00	250.00	75.00
0302	Struts of Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4$ m Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.40$ m CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Bailies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079$ cum Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum	metre	0.40	37.00	14.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of timber	cum	0.053	100.11	5.31
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	0.12	247.00	29.64
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				279.58
	Add Water Charges @ 1%				2.80
	TOTAL				282.38
	Add CPOH @ 15%				42.36
	Cost of 6.6 sqm				324.74
	Cost of 1 sqm				49.20
	Say				49.20

2.21.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a manhole 1.2mx1.0mx1.5m. Surface area: $2 \times (1.2 + 1.0) \times 1.5 = 6.60$ sqm</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost				
1198	Polling boards of Second class kail wood in planks 250mm wide and 38mm thick : $6 \times 0.25 \times 1.5 \times 0.038 = 0.086$ cum = 86cudm Qty taken for cost of using once after deducting for credit = $86 \times \frac{1}{4} \times \frac{1}{4} = 5.3755$ cudm	10 cudm	5.375	250.00	134.38
1197	Walling 100mmx 100mm of Second class kail wood in scantling $4 \times 1.2 \times 0.10 \times 0.10 = 0.048$ cum = 48 cudm Qty taken for cost of using once after deducting for credit = $48 \times \frac{1}{4} \times \frac{1}{4} = 3$ cudm	10 cudm	3.00	250.00	75.00
0302	Struts of Safeda ballies 125 mm diameter $(4 \times 1.0 = 4.0) + (2 \times 1.2 = 2.4) = 6.4$ m Qty taken for cost of using once after deducting for credit = $6.4 \times \frac{1}{4} \times \frac{1}{4} = 0.4$ m CARRIAGE: Poling boards = 0.086 cum Walling = 0.048 cum Ballies struts $3.14/4 \times (0.125)^2 \times 6.4 = 0.079$ cum Total of carriage = 0.213 cum $\times \frac{1}{4} = 0.053$ cum	metre	0.40	37.00	14.80
2204	Carriage of timber	cum	0.053	100.11	5.31
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
0114	Beldar	day	0.20	247.00	49.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	3.64	1.49	5.42
	TOTAL				311.61
	Add Water Charges @ 1%				3.12
	TOTAL				314.73
	Add CPOH @ 15%				47.21
	Cost of 6.6 sqm				361.94
	Cost of 1 sqm				54.84
	Say				54.85

2.22 Open timbering over areas including strutting, shoring etc. complete (Measurements to be taken of the face area timbered) :

2.22.1 Depth not exceeding 1.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: $30 \times 1.5 = 45 \text{ sqm}$.</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625 \text{ cudm}$	10 cudm	35.625	250.00	890.62
0302	Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60 \text{m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75 \text{ m}$	metre	3.75	37.00	138.75
2204	CARRIAGE: Poling boards = 0.57 cum Ballies $40 \times 1.5 \times 3.14 / 4 \times (0.125)^2 = 0.40 \text{ cum.}$ Total for carriage = $1.31 \text{ cum} \times \frac{1}{4} = 0.3275 \text{ cum}$	cum	0.3275	100.11	32.79
0112	LABOUR: Carpenter 2nd class	day	0.12	273.00	32.76
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,186.11
	Add Water Charges @ 1%				11.86
	TOTAL				1,197.97
	Add CPOH @ 15%				179.70
	Cost of 45 sqm				1,377.67
	Cost of 1 sqm				30.61
	Say				30.60

2.22.2 Depth exceeding 1.5 m but not exceeding 3 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: $30 \times 1.5 = 45 \text{ sqm.}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ cudm}$ Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625 \text{ cudm}$	10 cudm	35.625	250.00	890.62
0302	Raking struts- Safeda ballies 125 mm diameter $40 \times 1.5 = 60 \text{m}$ Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75 \text{ m}$ CARRIAGE: Poling boards = 0.57 cum Ballies $40 \times 1.5 \times 3.14 / 4 \times (0.125)^2 = 0.40 \text{ cum.}$ Total for carriage = $1.31 \text{ cum} \times \frac{1}{4} = 0.3275 \text{ cum}$	metre	3.75	37.00	138.75
2204	Carriage of timber	cum	0.3275	100.11	32.79
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	33.15	1.49	49.39
	TOTAL				1,303.30
	Add Water Charges @ 1%				13.03
	TOTAL				1,316.33
	Add CPOH @ 15%				197.45
	Cost of 45 sqm				1,513.78
	Cost of 1 sqm				33.64
	Say				33.65

2.22.3 Depth exceeding 3 m but not exceeding 4.5 m

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for an area 30m long and 1.5m deep</i> <i>Area: $30 \times 1.5 = 45 \text{ sqm.}$</i> MATERIAL: The Material can be used four times on the same work and after use of material credit is given @ 75% of cost Polling boards of Second class kail wood in planks 250mm x 38mm $40 \times 1.5 \times 0.25 \times 0.038 = 0.57 \text{ cum.} = 570 \text{ cudm}$	10 cudm	35.625	250.00	890.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0302	Qty taken for cost of using once after deducting for credit = $570 \times \frac{1}{4} \times \frac{1}{4} = 35.625$ cu dm Raking struts- Safeda ballies 125 mm diameter $40 \times 1.50 = 60$ m	metre	3.75	37.00	138.75
2204	Qty taken for cost of using once after deducting for credit = $60 \times \frac{1}{4} \times \frac{1}{4} = 3.75$ m Carriage of timber Poling boards = 0.57 cum Bailies $40 \times 1.5 \times 3.14 / 4 \times (0.125)^2 = 0.40$ cum. Total for carriage = 131 cum $\times \frac{1}{4} = 0.3275$ cum	cum	0.3275	100.11	32.79
0112	LABOUR: Carpenter 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	0.88	247.00	217.36
9999	Sundries	L.S.	47.58	1.49	70.89
	TOTAL				1,486.91
	Add Water Charges @ 1%				14.87
	TOTAL				1,501.78
	Add CPOH @ 15%				225.27
	Cost of 45 sqm				1,727.05
	Cost of 1 sqm				38.38
	Say				38.40

2.23 Extra for planking and strutting in open timbering if required to be left permanently in position (Face area of the timber permanently left to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for a trench 30m long and 1.5m deep</i> <i>Area: $2 \times 30 \times 1.5 = 90$ sqm.</i> MATERIAL: Poling boards of Second class kail wood in planks $1.50 \times 0.25 \times 0.038$ $2 \times 40 \times 1.5 \times 0.25 \times 0.038 = 1.14$ cum = 1140 cu dm Less @ 1/8 of Qty as timber is supposed to be used once before = $1140 - 142.50 = 997.50$ cu dm	10 cu dm	997.50	250.00	24,937.50
1197	Walling 100mm x 100mm of Second class kail wood in scantling $4 \times 30 \times 0.10 \times 0.10$ m = 1.20 cum = 1200 cu dm Less @ 1/8 of Qty as timber is supposed to be used once before = $1200 - 150 = 1050$ cu dm	10 cu dm	1,050.00	250.00	26,250.00
0302	Struts of Safeda ballies 125 mm diameter and 1.5m long) $- 2 \times 17 \times 1.5 = 51$ m Less @ 1/8 of Qty as timber is supposed to be used once before = $51 - 6.37 = 44.63$ m	metre	44.63	37.00	1,651.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of timber Poling boards =1.14 cum Walling =1.20 cum Bailies struts 51x3.14x $\frac{1}{4}$ x(0.125)2 = 0.63 cum Total of carriage = 2.97 cum Taking half = 2.97 x $\frac{1}{2}$ =1.485 cum TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 90 sqm Cost of 1 sqm Say	cum	1.485	100.11	148.67 52,987.48 529.87 53,517.35 8,027.60 61,544.95 683.83 683.85

2.24 Extra rates for quantities of works, executed:

2.24.1 In or under water and/or liquid mud, including pumping out water as required

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra due to slow progress and dewatering: 20% of the rate of the item $1 * 20 = 1 * 20$ (20% of the rate of the item. The extra percentage in rate is applicable in respect of each item but ltd. To quantities of work executed in difficult condition.) Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10m, 0.05m or more shall be taken as 0.10m and less than 0.05m ignored. Cost of 1 metre depth Say				20.00 20.00 20%

2.24.2 In or under foul position, including pumping out water as required

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra due to slow progress and dewatering: 25% of the rate of the item $1 * 25 = 1 * 25$ (25% of the rate of the item. This pertains to only such. Pumping of water as is envisaged at the time of tendering and don't include those that covered under contractual risk)				25.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Note for item no. 2.24:- The extra percentage rate is applicable in respect of each item but limited to quantities of work executed in these difficult conditions. The unit, namely, metre depth, to be considered for payment, shall be the depth measured from the sub soil water level up to the centre of gravity of the qty executed in difficult condition. The depth shall be reckoned correct to 0.10 m, 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored. Cost of 1 metre depth Say				25.00 25%

2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.20	260.00	52.00
0115	Coolie	day	2.50	247.00	617.50
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				721.50
	Add Water Charges @ 1%				7.22
	TOTAL				728.72
	Add CPOH @ 15%				109.31
	Cost of 10 cum				838.03
	Cost of 1 cum				83.80
	Say				83.80

2.26 Extra for every additional lift of 1.5 m or part there of in excavation / banking excavated or stacked materials.

2.26.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.10	260.00	26.00
0114	Beldar	day	1.10	247.00	271.70
	TOTAL				297.70
	Add Water Charges @ 1%				2.98
	TOTAL				300.68
	Add CPOH @ 15%				45.10
	Cost of 10 cum				345.78
	Cost of 1 cum				34.58
	Say				34.60

2.26.2 Ordinary or hard rock

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.20	260.00	52.00
0114	Beldar	day	1.95	247.00	481.65
	TOTAL				533.65
	Add Water Charges @ 1%				5.34
	TOTAL				538.99
	Add CPOH @ 15%				80.85
	Cost of 10 cum				619.84
	Cost of 1 cum				61.98
	Say				62.00

2.27 Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming consolidating and dressing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	MATERIAL:				
6501	Sand zone V (Jamuna)	cum	10.00	500.00	5,000.00
2335	Carriage of Jamuna sand	cum	10.00	87.60	876.00
	LABOUR:				
0114	Beldar	day	0.89	247.00	219.83
0115	Coolie	day	1.07	247.00	264.29
0101	Bhisti	day	0.35	260.00	91.00
	TOTAL				6,451.12
	Add Water Charges @ 1%				64.51
	TOTAL				6,515.63
	Add CPOH @ 15%				977.34
	Cost of 10 cum				7,492.97
	Cost of 1 cum				749.30
	Say				749.30

2.28 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.

2.28.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0114	Beldar	day	1.97	247.00	486.59
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				805.22
	Add Water Charges @ 1%				8.05
	TOTAL				813.27
	Add CPOH @ 15%				121.99
	Cost of 100 sqm				935.26
	Say				935.25

2.29 Ploughing the existing ground to a depth of 15 cm to 25 cm and watering the same.

2.29.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
	Beldar	day	2.75	247.00	679.25
0101	Bhisti	day	0.50	260.00	130.00
	TOTAL				809.25
	Add Water Charges @ 1%				8.09
	TOTAL				817.34
	Add CPOH @ 15%				122.60
	Cost of 100 sqm				939.94
	Say				939.95

2.30 Excavating holes more than 0.10 cum & upto 0.50 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil; as directed within a lead of 50 m and lift up to 1.5 m.

2.30.1 All kinds of soil

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.8.1	<i>Details of cost for 10 holes</i>				
	Earth work 10 x 0.30 (avg) = 3.0 cum	cum	3.00	130.80	392.40 (A)
	Rate as per Item Number 2.8.1 of SH: Earth work				
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	1.49 20	.14
	TOTAL				412.54
	Add Water Charges @ 1% except on A i.e on (412.54 - 392.40 =) 20.14				0.20
	TOTAL				412.74
	Add CPOH @ 15% except on A i.e on (412.74 - 392.40 =) 20.34				3.05
	Cost of 10 holes				415.79
	Cost of each				41.58
	Say				41.60

2.30.2 Ordinary rock

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.1	<i>Details of cost for 10 holes</i>				
	Earth work 10 x 0.3 (avg) = 3.0 cum	cum	3.00	212.00	636.00 (A)
	Rate as per Item Number 2.9.1 of SH: Earth work				
	Extra labour for filling and ramming				
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				656.14
	Add Water Charges @ 1% except on A i.e on (656.14 - 636.00 =) 20.14				0.20
	TOTAL				656.34
	Add CPOH @ 15% except on A i.e on (656.34 - 636.00 =) 20.34				3.05
	Cost of 10 holes				659.39
	Cost of each				65.94
	Say				65.95

2.30.3 Hard rock (requiring blasting)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.2	<i>Details of cost for 10 holes</i> Earth work 10 x 0.3 (avg) = 3.0 cum Rate as per Item Number 2.9.2 of SH: Earth work	cum	3.00	378.80	1,136.40 (A)
9999	Extra labour for filling and ramming Sundries TOTAL Add Water Charges @ 1% except on A i.e on (1,156.54 - 1,136.40 =) 20.14 TOTAL Add CPOH @ 15% except on A i.e on (1,156.74 - 1,136.40 =) 20.34 Cost of 10 holes Cost of each Say	L.S.	13.52	1.49	20.14 1,156.54 0.20 1,156.74 3.05 1,159.79 115.98 116.00

2.30.4 Hard rock (blasting prohibited)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2.9.3	<i>Details of cost for 10 holes</i> Earth work 10 x 0.3 (avg) = 3.0 cum Rate as per Item Number 2.9.3 of SH: Earth work	cum	3.00	491.95	1,475.85 (A)
9999	Extra labour for filling and ramming Sundries TOTAL Add Water Charges @ 1% except on A i.e on (1,495.99 - 1,475.85 =) 20.14 TOTAL Add CPOH @ 15% except on A i.e on (1,496.19 - 1,475.85 =) 20.34 Cost of 10 holes Cost of each Say	L.S.	13.52	1.49	20.14 1,495.99 0.20 1,496.19 3.05 1,499.24 149.92 149.90

2.31 Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	<i>Details of cost for 100 sqm</i> LABOUR: Beldar	day	1.08	247.00	266.76
0115	Coolie TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 100 sqm Say	day	0.60	247.00	148.20 414.96 4.15 419.11 62.87 481.98 482.00

2.32 Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	LABOUR:				
0114	Beldar	day	0.60	247.00	148.20
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				212.66
	Add Water Charges @ 1%				2.13
	TOTAL				214.79
	Add CPOH @ 15%				32.22
	Cost of 100 sqm				247.01
	Say				247.00

2.33 Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.

2.33.1 Beyond 30 cm girth up to and including 60 cm girth

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one tree of 15cm dia and average height 3m</i>				
	LABOUR:				
	quantity of wood-				
	$3.14/4 \times 0.15 \times 0.15 \times 3 = 0.053 \text{ cum.}$				
	Add 20% for branches = 0.011 cum.				
	Total = 0.064 cum.				
	Labour for cutting in trees removing the roots from the soil and then filling in Pit and depresions.				
0114	Beldar	day	0.33	247.00	81.51
0115	Coolie	day	0.17	247.00	41.99
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				127.57
	Add Water Charges @ 1%				1.28
	TOTAL				128.85
	Add CPOH @ 15%				19.33
	Cost of each				148.18
	Say				148.20

2.33.2 Beyond 60 cm girth up to and including 120 cm girth

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 90cm, average dia. 0.3m and length 5m</i>				
	LABOUR:				
	quantity of wood-				
	$(22 \times 0.3 \times 0.3 \times 5) / 7 \times 4 = 0.35 \text{ cum}$				
	20% branches = 0.07 cum				
	Total = 0.42 cum				
	Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.50	247.00	370.50
0115	Coolie	day	0.75	247.00	185.25
9999	Sundries	L.S.	5.46	1.49	8.14
	TOTAL				563.89
	Add Water Charges @ 1%				5.64
	TOTAL				569.53
	Add CPOH @ 15%				85.43
	Cost of each				654.96
	Say				654.95

2.33.3 Beyond 120 cm girth up to and including 240 cm girth

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 180cm, average dia. 0.6m and length 7m</i>				
	LABOUR:				
	quantity of wood-				
	$(22 \times 0.6 \times 0.6 \times 7) / 7 \times 4 = 1.98 \text{ cum} +$				
	20% branches = 0.40 cum				
	Total = 2.38 cum				
	Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	7.00	247.00	1,729.00
0115	Coolie	day	3.50	247.00	864.50
9999	Sundries	L.S.	8.06	1.49	12.01
	TOTAL				2,605.51
	Add Water Charges @ 1%				26.06
	TOTAL				2,631.57
	Add CPOH @ 15%				394.74
	Cost of each				3,026.31
	Say				3,026.30

2.33.4 Above 240 cm girth

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a tree of average girth 300cm, average dia. 1m and length 10m</i>				
	LABOUR:				
	quantity of wood-				
	$(22 \times 1 \times 1 \times 10) / 7 \times 4 = 7.86 \text{ cum}$				
	20% branches = 1.57 cum				
	Total = 9.43 cum				
	Labour for cutting the trees and removing in roots from the soil filling in pit and the depresions				
0114	Beldar	day	14.00	247.00	3,458.00
0115	Coolie	day	7.00	247.00	1,729.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				5,227.10
	Add Water Charges @ 1%				52.27
	TOTAL				5,279.37
	Add CPOH @ 15%				791.91
	Cost of each				6,071.28
	Say				6,071.30

2.34 Supplying chemical emulsion in sealed containers including delivery as specified.
2.34.1 Chlorpyrifos / Lindane emulsifiable concentrate of 20%

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7022	<i>Details of cost for 100 litres</i>				
	Chlorpyrifos 20% E.C. / Lindane 20% E.C.	litre	100.00	160.00	16,000.00
2342	Carriage of Solvent / Diesel.	quintal	1.00	8.76	8.76
	TOTAL				16,008.76
	Add Water Charges @ 1%				160.09
	TOTAL				16,168.85
	Add CPOH @ 15%				2,425.33
	Cost of 100 litre				18,594.18
	Cost of 1 litre				185.94
	Say				185.95

2.35 Diluting and injecting chemical emulsion for POST- CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :

2.35.1 Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:

2.35.1.1 With Chlorpyrifos / Lindane E.C. 20% with 1 % concentration

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	Chlorpyrifos 1% concentration =				
	10.0x0.30x7.5 = 22.5 litres				
	Chlorpyrifos 20% required = 22.5/20 =				
	1.125 litres				
	Chlorpyrifos 20% E.C. / Lindane 20% E.C.				
	1.125 litres (to be supplied free of cost)				
	LABOUR:				
0114	Beldar	day	0.33	247.00	81.51
	(for excavating channel) rodding in				
	chemical spraying the emulssion and				
	refilling the same				
9999	Sundries and rent of sprayer etc.	L.S.	13.52	1.49	20.14
	TOTAL				101.65
	Add Water Charges @ 1%				1.02
	TOTAL				102.67
	Add CPOH @ 15%				15.40
	Cost of 10 metres				118.07
	Cost of 1 metre				11.81
	Say				11.80

2.35.2 Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes.:

2.35.2.1 With Chlorpyrifos Lindane E.C. 20% with 1% concentration

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i>				
	MATERIAL:				
	Chlorpyrifos 1% concentration =				
	10.0x2.25 = 22.5 litres				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Chlorpyriphos 20% required = $22.5/20 = 1.125$ litres Chlorpyriphos 20% E.C. / Lindane 20% E.C. 1.125 litres (to be supplied free of cost) LABOUR:				
0114	Beldar (for drilling holes and injecting chemical)	day	0.40	247.00	98.80
9999	Sundries and rent of a sprayer and mortar and making good the holes	L.S.	35.88	1.49	53.46
	TOTAL				152.26
	Add Water Charges @ 1%				1.52
	TOTAL			153.78	
	Add CPOH @ 15%				23.07
	Cost of 10 metres				176.85
	Cost of 1 metre				17.69
	Say				17.70

2.35.3 Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor:

2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1 % concentration

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9 sqm (3 metre x 3 metre)</i> <i>No. of holes - 100 nos.</i> MATERIAL: Chlorpyriphos 1% required 100×1 litre = 100 litres Chlorpyriphos 20% E.C. = $100/20 = 5.0$ litres Chlorpyriphos 20% E.C. / Lindane 20% E.C. 5 litres (to be supplied free of cost) LABOUR:				
0114	Beldar (For making holes & spraying)	day	2.00	247.00	494.00
0124	Mason (brick layer) 2nd class	day	0.50	273.00	136.50
9999	Sundries, rent of sprayer and mortar.	L.S.	35.88	1.49	53.46
	TOTAL				683.96
	Add Water Charges @ 1%				6.84
	TOTAL				690.80
	Add CPOH @ 15%				103.62
	Cost of 9 sqm				794.42
	Cost of 1 sqm				88.27
	Say				88.25

2.35.4 Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :

2.35.4.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metres</i> MATERIAL: No. of holes $10.0/0.30 = 33.33+1 = 34.33$ holes				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Say 34 holes chlorpyrifos 1% concentration required = 34x1.0 = 34.00 litres Chlorpyrifos 20% E.C. required 34.00/20= 1.70 litres Chlorpyrifos 20% E.C. / Lindane 20% E.C. 1.7 litres (to be supplied free of cost) LABOUR: Beldar (for making holes at 45 deg and spraying the emulsion)	day	0.30	247.00	74.10
0124	Mason (brick layer) 2nd class	day	0.05	273.00	13.65
9999	Sundries, rent of pump etc.	L.S.	17.94	1.49	26.73
	TOTAL				114.48
	Add Water Charges @ 1%				1.14
	TOTAL				115.62
	Add CPOH @ 15%				17.34
	Cost of 10 metre				132.96
	Cost of 1 metre				13.30
	Say				13.30

2.35.5 Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5 litres per hole by drilling 6mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0771	<i>Details of cost for 10 metres</i> MATERIAL: No. of holes $10.0/0.15 = 66.67+1 = 67.67$ holes Say 68 holes Chlordane 1% concentration required = 68 x 0.5 = 34.00 litres Chlordane 20% E.C. required 34.00/20=1.70 litres Chlordane 20% E.C. / Lindane 20% E.C. 1.7 litres (to be supplied free of cost) Kerosene oil = 34-1.7 = 32.30 litres	litre	32.30	30.00	969.00
0112	Kerosene oil	day	0.20	273.00	54.60
0114	Carpenter 2nd class (For making holes and plugging the same)	day	0.20	247.00	49.40
9999	Beldar for injecting chemical Sundries	L.S.	17.94	1.49	26.73
	TOTAL				1,099.73
	Add Water Charges @ 1%				11.00
	TOTAL				1,110.73
	Add CPOH @ 15%				166.61
	Cost of 10 metre				1,277.34
	Cost of 1 metre				127.73
	Say				127.75

2.36 Deduct for disposed soil not levelled and neatly dressed.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	LABOUR:				
0128	Mate	day	0.08	260.00	20.80
	Beldar /				
0115	Coolie	day	0.80	247.00	197.60
	TOTAL				218.40
	Add Water Charges @ 1%				2.18
	TOTAL				220.58
	Add CPOH @ 15%				33.09
	Cost of 10 cum				253.67
	Cost of 1 cum				25.37
	Say				25.35

2.37 Supply and stacking of Fly ash conforming to IRC- 58 at site, including carriage, loading , unloading & stacking up to any lead (measured stacks will be reduced by 20% for payment).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	Ref :- Based on DAR Item No : 1.1.1 A) ii)				
	Labour and carriage				
1980	Fly ash	cum	1.00	7.75	7.75
	(Available free of cost at thermal power plant at Baderpur power plant. Lead = 35 km)				
2262	Carriage of flyash	cum	1.00	87.60	87.60
	1st lead 0 to 5 km				
	TOTAL				95.35
	Add Water Charges @ 1%				0.95
	TOTAL				96.30
	Add CPOH @ 15%				14.44
	Cost of 1 cum				110.74
	Say				110.75

2.38 Filling with available fly ash and earth (excluding rock) in trenches or embankment in layers (each layer should not exceed 15 cm), with intermediate layer of compacted earth (Soil density of 98%) after every four layers of compacted depth of fly ash, sides & top layer of filling shall be done with earth having total minimum compacted thickness 30 cm or as decided by Engineer –in-charge, including compacting each layer by rolling/ ramming and watering , all complete as per drawing and direction of Engineer -in - charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
	Ref :- Based on DAR Item No : 2.25				
	LABOUR:				
0128	Mate	day	0.20	260.00	52.00
0115	Coolie	day	2.50	247.00	617.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				721.50
	Add Water Charges @ 1%				7.22
	TOTAL				728.72
	Add CPOH @ 15%				109.31
	Cost of 10 cum				838.03
	Cost of 1 cum				83.80
	Say				83.80

SUB HEAD : 3.0
MORTARS

3.1 Cement Mortar 1:1 (1 cement : 1 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.7125 cum. of cement = 1.02 tonne)				
	Cement required for cement mortar is 71.25%				
0367	Portland Cement	tonne	1.02	5,000.00	5,100.00
2209	Carriage of cement	tonne	1.02	77.87	79.43
0983	Fine sand (zone IV)	cum	0.7125	640.00	456.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.7125	87.60	62.42
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.90	1.49	40.08
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				5,961.52
	Cost of 1 cum				5,961.52
	Say				5,961.50

3.2 Cement mortar 1:2 (1 cement : 2 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5,000.00	3,400.00
2209	Carriage of cement	tonne	0.68	77.87	52.95
0983	Fine sand (zone IV)	cum	0.95	640.00	608.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.95	87.60	83.22
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				4,407.86
	Cost of 1 cum				4,407.86
	Say				4,407.85

3.3 Cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.375 cum. of cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.51	5,000.00	2,550.00
2209	Carriage of cement	tonne	0.51	77.87	39.71
0983	Fine sand (zone IV)	cum	1.07	640.00	684.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,631.93
	Cost of 1 cum				3,631.93
	Say				3,631.95

3.4 - Cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne)				
	Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.38	5,000.00	1,900.00
2209	Carriage of cement	tonne	0.38	77.87	29.59
0983	Fine sand (zone IV)	cum	1.07	640.00	684.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,971.81
	Cost of 1 cum				2,971.81
	Say				2,971.80

3.5 Cement mortar 1:5 (1 cement : 5 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5,000.00	1,550.00
2209	Carriage of cement	tonne	0.31	77.87	24.14
0983	Fine sand (zone IV)	cum	1.07	640.00	684.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,616.36
	Cost of 1 cum				2,616.36
	Say				2,616.35

3.6 Cement mortar 1:6 (1 cement : 6 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne)				
	Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.25	5,000.00	1,250.00
2209	Carriage of cement	tonne	0.25	77.87	19.47
0983	Fine sand (zone IV)	cum	1.07	640.00	684.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,311.69
	Cost of 1 cum				2,311.69
	Say				2,311.70

3.7 Cement mortar 1:2 (1 cement : 2 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.5%				
0367	Portland Cement	tonne	0.68	5,000.00	3,400.00
2209	Carriage of cement	tonne	0.68	77.87	52.95
0982	Coarse sand (zone III)	cum	0.95	1,120.00	1,064.00
2203	Carriage of coarse sand	cum	0.95	87.60	83.22
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				4,863.86
	Cost of 1 cum				4,863.86
	Say				4,863.85

3.8 Cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.357 cum. of cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0367	Portland Cement	tonne	0.51	5,000.00	2,550.00
2209	Carriage of cement	tonne	0.51	77.87	39.71
0982	Coarse sand (zone III)	cum	1.07	1,120.00	1,198.40
2203	Carriage of coarse sand	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				4,145.53
	Cost of 1 cum				4,145.53
	Say				4,145.55

3.9 Cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.268 cum. of cement = 0.38 tonne)				
	Cement required for cement mortar is 26.80%				
0367	Portland Cement	tonne	0.38	5,000.00	1,900.00
2209	Carriage of cement	tonne	0.38	77.87	29.59
0982	Coarse sand (zone III)	cum	1.07	1,120.00	1,198.40
2203	Carriage of coarse sand	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,485.41
	Cost of 1 cum				3,485.41
	Say				3,485.40

3.10 Cement mortar 1:5 (1 cement : 5 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5,000.00	1,550.00
2209	Carriage of cement	tonne	0.31	77.87	24.14
0982	Coarse sand (zone III)	cum	1.07	1,120.00	1,198.40
2203	Carriage of coarse sand	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,129.96
	Cost of 1 cum				3,129.96
	Say				3,129.95

3.11 Cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.178 cum. of cement = 0.25 tonne)				
	Cement required for cement mortar is 17.80%				
0367	Portland Cement	tonne	0.25	5,000.00	1,250.00
2209	Carriage of cement	tonne	0.25	77.87	19.47
0982	Coarse sand (zone III)	cum	1.07	1,120.00	1,198.40
2203	Carriage of coarse sand	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,825.29
	Cost of 1 cum				2,825.29
	Say				2,825.30

3.12 Cement mortar 1:2 (1 cement : 2 stone dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5,000.00	3,400.00
2209	Carriage of cement	tonne	0.68	77.87	52.95
1159	Stone dust	cum	0.95	925.00	878.75
2267	Carriage of stone dust	cum	0.95	87.60	83.22
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				4,678.61
	Cost of 1 cum				4,678.61
	Say				4,678.60

3.13 Cement mortar 1:2 (1 cement : 2 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0367	Portland Cement	tonne	0.68	5,000.00	3,400.00
2209	Carriage of cement	tonne	0.68	77.87	52.95
0784	Marble dust/ powder	cum	0.95	1,000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.95	87.60	83.22
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				4,749.86
	Cost of 1 cum				4,749.86
	Say				4,749.85

3.14 Cement mortar 1:5 (1 cement : 5 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0367	Portland Cement	tonne	0.31	5,000.00	1,550.00
2209	Carriage of cement	tonne	0.31	77.87	24.14
0784	Marble dust/ powder	cum	1.07	1,000.00	1,070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,001.56
	Cost of 1 cum				3,001.56
	Say				3,001.55

3.15 White cement mortar 1:2 (1 white cement : 2 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum. of white cement = 0.68 tonne)				
	Cement required for cement mortar is 47.50%				
0368	White Cement	tonne	0.68	12,000.00	8,160.00
2209	Carriage of cement	tonne	0.68	77.87	52.95
0784	Marble dust/ powder	cum	0.95	1,000.00	950.00
2268	Carriage of marble dust and/or marble chips	cum	0.95	87.60	83.22
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				9,509.86
	Cost of 1 cum				9,509.86
	Say				9,509.85

3.16 White cement mortar 1:3 (1 white cement : 3 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.357 cum. of white cement = 0.51 tonne)				
	Cement required for cement mortar is 35.70%				
0368	White Cement	tonne	0.51	12,000.00	6,120.00
2209	Carriage of cement	tonne	0.51	77.87	39.71
0784	Marble dust/ powder	cum	1.07	1,000.00	1,070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				7,587.13
	Cost of 1 cum				7,587.13
	Say				7,587.15

3.17 White cement mortar 1:5 (1 white cement : 5 marble dust).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.214 cum. of white cement = 0.31 tonne)				
	Cement required for cement mortar is 21.40%				
0368	White Cement	tonne	0.31	12,000.00	3,720.00
2209	Carriage of cement	tonne	0.31	77.87	24.14
0784	Marble dust/ powder	cum	1.07	1,000.00	1,070.00
2268	Carriage of marble dust and/or marble chips	cum	1.07	87.60	93.73
	LABOUR:				
	For measuring, carrying, depositing and mixing-				
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.07	260.00	18.20
9999	Hire and running charges of mechanical mixer	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				5,171.56
	Cost of 1 cum				5,171.56
	Say				5,171.55

3.18 Mud mortar.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i>				
	MATERIAL:				
0811	Mud (dry)	cum	1.08	50.00	54.00
	LABOUR:				
0114	Beldar	day	0.63	247.00	155.61
0101	Bhisti	day	0.315	260.00	81.90
9999	Sundries	L.S.	6.45	1.49	9.61
	TOTAL				301.12
	Cost of 1 cum				301.12
	Say				301.10

3.19 Mortar in lime , surkhi (50% red and 50% light yellow) and marble dust 1:1.5:0.5

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	(0.475 cum of lime putty=3.01 q of unslaked lime)				
1182	Surkhi	cum	0.7125	700.00	498.75
0773	Unslaked lime	quintal	3.01	300.00	903.00
0784	Marble dust/ powder	cum	0.24	1,000.00	240.00
	LABOUR:				
	for slaking lime, making lime putty, grinding and carrying				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.90	247.00	222.30
0101	Bhisti	day	0.45	260.00	117.00
9999	As cost for running and upkeep of mortar mill	L.S.	10.35	1.49	15.42
9999	Sundries	L.S.	5.20	1.49	7.75
	TOTAL				2,004.22
	Cost of 1 cum				2,004.22
	Say				2,004.20

SUB HEAD : 4.0
CONCRETE WORK

4.1 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:

4.1.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1,050.00	672.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1,050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement (0.425cum)	tonne	0.61	5,000.00	3,050.00
2209	Carriage of cement	tonne	0.61	77.87	47.50
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				5,289.31
	Add Water Charges @ 1%				52.89
	TOTAL				5,342.20
	Add CPOH @ 15%				801.33
	Cost of 1 cum				6,143.53
	Say				6,143.55

4.1.2 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement (0.2833 cum)	tonne	0.40	5,000.00	2,000.00
2209	Carriage of cement	tonne	0.40	77.87	31.15
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				4,222.96
	Add Water Charges @ 1%				42.23
	TOTAL				4,265.19
	Add CPOH @ 15%				639.78
	Cost of 1 cum				4,904.97
	Say				4,904.95

4.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1,050.00	703.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1,050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	87.60	77.96
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2225 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				3,886.38
	Add Water Charges @ 1%				38.86
	TOTAL				3,925.24
	Add CPOH @ 15%				588.79
	Cost of 1 cum				4,514.03
	Say				4,514.05

4.1.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.52	950.00	494.00
	0.56 - (7.5% for voids i.e.) 0.04 = 0.52 cum				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1,050.00	231.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1,050.00	115.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.52	95.22	49.51
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.33	87.60	28.91
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2225 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,791.67
	Add Water Charges @ 1%				37.92
	TOTAL				3,829.59
	Add CPOH @ 15%				574.44
	Cost of 1 cum				4,404.03
	Say				4,404.05

4.1.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.70	1,050.00	735.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.24	1,050.00	252.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.94	87.60	82.34
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,464.49
	Add Water Charges @ 1%				34.64
	TOTAL				3,499.13
	Add CPOH @ 15%				524.87
	Cost of 1 cum				4,024.00
	Say				4,024.00

4.1.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,347.56
	Add Water Charges @ 1%				33.48
	TOTAL				3,381.04
	Add CPOH @ 15%				507.16
	Cost of 1 cum				3,888.20
	Say				3,888.20

4.1.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0983	Fine sand (zone IV)	cum	0.47	640.00	300.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,121.96
	Add Water Charges @ 1%				31.22
	TOTAL				3,153.18
	Add CPOH @ 15%				472.98
	Cost of 1 cum				3,626.16
	Say				3,626.15

4.1.8 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.1175 cum)	tonne	0.17	5,000.00	850.00
2209	Carriage of cement	tonne	0.17	77.87	13.24
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				3,093.67
	Add Water Charges @ 1%				30.94
	TOTAL				3,124.61
	Add CPOH @ 15%				468.69
	Cost of 1 cum				3,593.30
	Say				3,593.30

4.1.9 1:4:8 (1 cement : 4 fine sand : 8 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0983	Fine sand (zone IV)	cum	0.47	640.00	300.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	87.60	41.17
0367	Portland Cement (0.1175 cum)	tonne	0.17	5,000.00	850.00
2209	Carriage of cement	tonne	0.17	77.87	13.24
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,868.07
	Add Water Charges @ 1%				28.68
	TOTAL				2,896.75
	Add CPOH @ 15%				434.51
	Cost of 1 cum				3,331.26
	Say				3,331.25

4.1.10 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.2225 cum)	tonne	0.13	5,000.00	650.00
2209	Carriage of cement	tonne	0.13	77.87	10.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,890.55
	Add Water Charges @ 1%				28.91
	TOTAL				2,919.46
	Add CPOH @ 15%				437.92
	Cost of 1 cum				3,357.38
	Say				3,357.40

4.1.11 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0983	Fine sand (zone IV)	cum	0.47	640.00	300.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	87.60	41.17
0367	Portland Cement (0.2225 cum)	tonne	0.13	5,000.00	650.00
2209	Carriage of cement	tonne	0.13	77.87	10.12
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	8.97	1.49	13.37
	TOTAL				2,658.18
	Add Water Charges @ 1%				26.58
	TOTAL				2,684.76
	Add CPOH @ 15%				402.71
	Cost of 1 cum				3,087.47
	Say				3,087.45

4.1.12 1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.17	5,000.00	850.00
2209	Carriage of cement	tonne	0.17	77.87	13.24
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				2,994.11
	Add Water Charges @ 1%				29.94
	TOTAL				3,024.05
	Add CPOH @ 15%				453.61
	Cost of 1 cum				3,477.66
	Say				3,477.65

4.1.13 1:2½:4: 11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.34	1,120.00	380.80
2203	Carriage of coarse sand	cum	0.34	87.60	29.78

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.13	5,000.00	650.00
2209	Carriage of cement	tonne	0.13	77.87	10.12
	LABOUR:				
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	1.63	247.00	402.61
0101	Bhisti	day	0.70	260.00	182.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				2,754.76
	Add Water Charges @ 1%				27.55
	TOTAL				2,782.31
	Add CPOH @ 15%				417.35
	Cost of 1 cum				3,199.66
	Say				3,199.65

4.2 Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor, etc. up to floor five level, excluding the cost of centering, shuttering and finishing :

4.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1,050.00	672.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1,050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement	tonne	0.61	5,000.00	3,050.00
	(0.425 cum)				
2209	Carriage of cement	tonne	0.61	77.87	47.50
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	14.30	1.49	21.31
	Extra labour for lifting material upto floor level = 0.75x2.5 = 1.88				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				5,942.22
	Add Water Charges @ 1%				59.42
	TOTAL				6,001.64
	Add CPOH @ 15%				900.25
	Cost of 1 cum				6,901.89
	Say				6,901.90

4.2.2 1:1½:3 (1 cement : 1½ coarse sand :3 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement (0.2833 cum)	tonne	0.40	5,000.00	2,000.00
2209	Carriage of cement	tonne	0.40	77.87	31.15
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	14.30	1.49	21.31
0115	Coolie	day	1.88	247.00	464.36
	Extra labour for lifting material upto floor level = 0.75x2.5 = 1.88				
	TOTAL				4,875.87
	Add Water Charges @ 1%				48.76
	TOTAL				4,924.63
	Add CPOH @ 15%				738.69
	Cost of 1 cum				5,663.32
	Say				5,663.30

4.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1,050.00	703.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1,050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	87.60	77.96
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2833 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
LABOUR:					
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	14.30	1.49	21.31
0115	Coolie	day	1.88	247.00	464.36
Extra labour for lifting material upto floor level = $0.75 \times 2.50 = 1.88$					
TOTAL					4,539.29
Add Water Charges @ 1%					45.39
TOTAL					4,584.68
Add CPOH @ 15%					687.70
Cost of 1 cum					5,272.38
Say					5,272.40

4.2.4 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
<i>Details of cost for 1 cum</i>					
MATERIAL:					
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.56 cum-7.5% for voids i.e. $0.04 = 0.52$ cum)	cum	0.52	950.00	494.00
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.22	1,050.00	231.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.11	1,050.00	115.50
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.52	95.22	49.51
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.33	87.60	28.91
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2225 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
LABOUR:					
0114	Beldar	day	0.90	247.00	222.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	13.52	1.49	20.14
0115	Coolie	day	1.88	247.00	464.36
	Extra labour for lifting.material upto floor level = $0.75 \times 2.50 = 1.88$				
	TOTAL				4,444.58
	Add Water Charges @ 1%				44.45
	TOTAL				4,489.03
	Add CPOH @ 15%				673.35
	Cost of 1 cum				5,162.38
	Say				5,162.40

4.2.5 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.70	1,050.00	735.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.24	1,050.00	252.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.94	87.60	82.34
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	13.52	1.49	20.14
0115	Coolie	day	1.88	247.00	464.36
	Extra labour for lifting.material upto floor level = $0.75 \times 2.50 = 1.88$				
	TOTAL				4,117.40
	Add Water Charges @ 1%				41.17
	TOTAL				4,158.57
	Add CPOH @ 15%				623.79
	Cost of 1 cum				4,782.36
	Say				4,782.35

4.2.6 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	13.52	1.49	20.14
0115	Coolie	day	1.88	247.00	464.36
	Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88				
	TOTAL				4,000.47
	Add Water Charges @ 1%				40.00
	TOTAL				4,040.47
	Add CPOH @ 15%				606.07
	Cost of 1 cum				4,646.54
	Say				4,646.55

4.2.7 1:3:6 (1 cement : 3 fine sand : 6 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size (0.70 cum-7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0983	Fine sand (zone IV)	cum	0.47	640.00	300.80
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.47	87.60	41.17
0367	Portland Cement (0.15674 cum)	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46
9999	Sundries	L.S.	13.52	1.49	20.14
0115	Coolie	day	1.88	247.00	464.36
	Extra labour for lifting.material upto floor level = 0.75x2.50 = 1.88				
	TOTAL				3,774.87
	Add Water Charges @ 1%				37.75
	TOTAL				3,812.62
	Add CPOH @ 15%				571.89
	Cost of 1 cum				4,384.51
	Say				4,384.50

4.2.8 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement	tonne	0.13	5,000.00	650.00
2209	Carriage of cement	tonne	0.13	77.87	10.12
	LABOUR:				
0114	Beldar	day	0.90	247.00	222.30
0115	Coolie	day	0.78	247.00	192.66
0101	Bhisti	day	0.70	260.00	182.00
0123	Mason (brick layer) 1 st class	day	0.10	301.00	30.10
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Scaffolding	L.S.	114.40	1.49	170.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	14.30	1.49	21.31
	Extra labour for lifting material up to floor five level =				
	$0.75 \times 2.5 = 1.88$				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				3,540.29
	Add Water Charges @ 1%				35.40
	TOTAL				3,575.69
	Add CPOH @ 15%				536.35
	Cost of 1 cum				4,112.04
	Say				4,112.05

4.3 Centering and shuttering including strutting, propping etc. and removal of form work for :

4.3.1 Foundations, footings, bases for columns

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size</i>				
	<i>2.7mx2.7mx1.00m</i>				
	<i>Contact area = 10.80 sqm</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.34	1,050.00	357.00
	Qty taken for cost of using once =				
	$16 \times 0.85 / 40 = 0.34$				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1,160.00	197.20
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7328	Double clip (bridge clip)	each	0.34	97.00	32.98
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7329	Single clip	each	0.17	77.00	13.09
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7330	M.S. tube 40 mm dia	metre	0.2295	280.00	64.26
	$4 \times 2.7 \text{m} = 10.8 \text{m}$				
	Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$				
9999	Assembly nuts & bolts	L.S.	22.10	1.49	32.93
9999	Carriage	L.S.	78.00	1.49	116.22
	LABOUR:				
0116	Fitter (grade 1)	day	0.75	301.00	225.75
0114	Beldar	day	1.50	247.00	370.50
9999	Shuttering oil	L.S.	52.00	1.49	77.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				1,551.65
	Add Water Charges @ 1%				15.52
	TOTAL				1,567.17
	Add CPOH @ 15%				235.08
	Cost of 10.8 sqm				1,802.25
	Cost of 1 sqm				166.88
	Say				166.90

4.3.2 Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.9m long and 1.00m high wall</i>				
	<i>Area of contact 2x7.9x1.0 = 15.8 sqm.</i>				
	MATERIAL:				
	Assuming shuttering material will be unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.51	1,050.00	535.50
	2x3x2x2 = 24 Nos.				
	Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1,160.00	197.20
	4x2 = 8				
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7328	Double clip (bridge clip)	each	0.51	97.00	49.47
	2x6x2 = 24				
	Qty taken for cost of using once = $24 \times 0.85 / 40 = 0.51$				
7329	Single clip	each	0.255	77.00	19.64
	2x3x2 = 12				
	Qty taken for cost of using once = $12 \times 0.85 / 40 = 0.255$				
7330	M.S. tube 40 mm dia	metre	0.68	280.00	190.40
	2x2x8m = 32m				
	Qty taken for cost of using once = $32 \times 0.85 / 40 = 0.68$				
9999	Nuts & bolts	L.S.	27.62	1.49	41.15
9999	Carriage	L.S.	78.00	1.49	116.22
	LABOUR:				
0116	Fitter (grade 1)	day	3.50	301.00	1,053.50
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries	L.S.	52.00	1.49	77.48
	TOTAL				3,878.78
	Add Water Charges @ 1%				38.79
	TOTAL				3,917.57
	Add CPOH @ 15%				587.64
	Cost of 15.8 sqm				4,505.21
	Cost of 1 sqm				285.14
	Say				285.15

4.3.3 Columns, piers, abutments, pillars, posts and struts

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Size of column 450x450mm and 2.5m high Area of contact = $4 \times 0.45 \times 2.5 = 4.5$ sqm. Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of Material Less salvage value of material after full use @ 25% of cost of material</i>				
7331	Wall form panel 1250x450 mm Qty taken for cost of using once = $8 \times 0.85 / 40$ = 0.17	each	0.17	1,040.00	176.80
7332	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40$ = 0.085	each	0.085	340.00	28.90
7333	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85 / 40$ = 0.1063	each	0.1063	1,220.00	129.69
7334	Prop 2 m (2-3.5 m) Qty taken for cost of using once = $4 \times 0.85 / 40$ = 0.085	each	0.085	830.00	70.55
9999	Assembly nuts & bolts	L.S.	27.62	1.49	41.15
9999	Carriage	L.S.	52.00	1.49	77.48
	LABOUR:				
0116	Fitter (grade 1)	day	1.00	301.00	301.00
0114	Beldar	day	2.00	247.00	494.00
9999	Shuttering oil	L.S.	39.00	1.49	58.11
9999	Carriage	L.S.	26.00	1.49	38.74
	TOTAL				1,416.42
	Add Water Charges @ 1%				14.16
	TOTAL				1,430.58
	Add CPOH @ 15%				214.59
	Cost of 4.5 sqm				1,645.17
	Cost of 1 sqm				365.59
	Say				365.60

4.4 Providing and laying cement concrete in kerbs, steps and the like at or near ground level excluding the cost of centering, shuttering and finishing.

4.4.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for kerb : 100m long 20cm deep and 30cm wide. $100m \times 30m \times 0.20m = 6.00$ cum. Cement Concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work</i>				
4.1.3		cum	6.00	4,514.05	27,084.30 (A)
	TOTAL				27,084.30
	Cost of 6 cum				27,084.30
	Cost of 1 cum				4,514.05
	Say				4,514.05

4.4.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.5	<i>Details of cost for kerb :</i> 100m long 20cm deep and 30cm wide. $100m \times 30m \times 0.20m = 6.00 \text{ cum.}$ $100 \times 30 \times 0.20 = 6.00 \text{ cum}$ Cement concrete 1:3:6 Rate as per Item Number 4.1.5 of SH: Concrete work <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Cost of 6 cum</div> <div style="text-align: right;">Cost of 1 cum</div> <div style="text-align: right;">Say</div>	cum	6.00	4,024.00	24,144.00 (A) 24,144.00 4,024.00 4,024.00

4.5 Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc. including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.

4.5.1 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.2	<i>Details of cost for Plain window sill 15 nos.</i> $15 \times 1m \times 0.20m \times 0.15m = 0.45 \text{ cum.}$ $100 \times 30 \times 0.20 = 6.00 \text{ cum}$ MATERIAL: Cement concrete 1:1.5:3 Rate as per Item Number 4.1.2 of SH: Concrete work Extra labour for lifting $0.45 \times 0.45 \times 2.5 = 0.51$ Coolie Centering and shuttering (1) Mould (i) Plate 3mm thick: $(2 \times 1 \times 0.15) + (2 \times 0.15 \times 0.20)$ $= 0.36 \text{ sqm. @ } 23.55 \text{ kg/m}^2 = 8.48 \text{ kg.}$ (ii) Flat 10x5mm: $4 \times 1.0 = 4.0 \text{ m}$ $8 \times 0.2 = 1.6 \text{ m}$ $4 \times 0.15 = 0.60 \text{ m}$ Handle $2 \times 0.25 = 0.5 \text{ m}$ $= 6.70 \text{ m @ } 0.4 \text{ kg/m} = 2.68 \text{ kg.}$ Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = $0.112 \times 0.75 / 40 = 0.0021 \text{ qtl} = 0.21 \text{ kg}$ Rate as per Item Number 10.1 of SH: Steel work (2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 $1 \times 2.0 \times 2.0 \text{ m} = 4 \text{ sqm.}$ Qty taken for cost of using once = $4 / 40 =$ 0.1 sqm	cum	0.45	4,904.95	2,207.23 (A)
0115		day	0.51	247.00	125.97
10.1		kg	0.21	59.90	12.58 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1.2	Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement $2.00 \times 2.00 \times 0.025 = 0.10 \text{ cum}$ Qty taken for cost of using once = $0.100/40 = 0.0025 \text{ cum}$	sqm	0.10	455.90	45.59 (A)
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	1.49	54.09
	TOTAL				2,457.27
	Add Water Charges @ 1% except on A i.e on $(2,457.27 - 2,277.21 =) 180.06$				1.80
	TOTAL				2,459.07
	Add CPOH @ 15% except on A i.e on $(2,459.07 - 2,277.21 =) 181.86$				27.28
	Cost of 0.45 cum				2,486.35
	Cost of 1 cum				5,525.22
	Say				5,525.20

4.5.2 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for Plain window sill 15 nos.</i> $15 \times 1 \text{ m} \times 0.20 \text{ m} \times 0.15 \text{ m} = 0.45 \text{ cum}$. MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work Centering and shuttering (1) Mould (i) Plate 3mm thick: $(2 \times 1 \times 0.15) + (2 \times 0.15 \times 0.20) = 0.36 \text{ sqm}$. @ 23.55kg/m ² = 8.48 kg. (ii) Flat 10x5mm: $4 \times 1.0 = 4.0 \text{ m}$ $8 \times 0.2 = 1.6 \text{ m}$ $4 \times 0.15 = 0.60 \text{ m}$ Handle $2 \times 0.25 = 0.5 \text{ m}$ $= 6.70 \text{ m}$ @ 0.4kg/m = 2.68 kg. Total = 11.16kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = $0.112 \times 0.75/40 = 0.0021 \text{ qtl} = 0.21 \text{ kg}$ Extra labour for lifting $0.45 \times 0.45 \times 2.5 = 0.51$	cum	0.45	4,514.05	2,031.32 (A)
0115	Coolie	day	0.51	247.00	125.97
10.1	Rate as per Item Number 10.1 of SH: Steel work (2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 $1 \times 2.0 \times 2.0 \text{ m} = 4 \text{ sqm}$.	kg	0.21	59.90	12.58 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1.2	Qty taken for cost of using once = $4/40 = 0.1$ sqm Rate as per Item Number 11.1.2 of SH: Flooring (ii) 25mm thick cement concrete 1:2:4 in pavement $2.00 \times 2.00 \times 0.025 = 0.10$ cum Qty taken for cost of using once = $0.100/40 = 0.0025$ cum	sqm	0.10	455.90	45.59 (A)
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
9999	Mortar and labour for hoisting and finishing	L.S.	36.30	1.49	54.09
	TOTAL				2,281.36
	Add Water Charges @ 1% except on A i.e on (2,281.36 - 2,101.30 =) 180.06				1.80
	TOTAL				2,283.16
	Add CPOH @ 15% except on A i.e on (2,283.16 - 2,101.30 =) 181.86				27.28
	Cost of 0.45 cum				2,310.44
	Cost of 1 cum				5,134.31
	Say				5,134.30

4.5.3 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.5	<i>Details of cost for Plain window sill 15 nos.</i> $15 \times 1m \times 0.20m \times 0.15m = 0.45$ cum. MATERIAL: Cement concrete 1:3:6 Rate as per Item Number 4.1.5 of SH: Concrete work Extra labour for lifting $0.45 \times 0.45 \times 2.5 = 0.51$	cum	0.45	4,024.00	1,810.80 (A)
0115	Coolie Centering and shuttering (1) Mould (i) Plate 3mm thick $(2 \times 1 \times 0.15) + (2 \times 0.15 \times 0.20) = 0.36$ sqm. @ $23.55 \text{ kg/m}^2 = 8.48$ kg. (ii) Flat 10x5mm $4 \times 1.0 = 4.0$ m $8 \times 0.2 = 1.6$ m $4 \times 0.15 = 0.60$ m Handle $2 \times 0.25 = 0.5$ m $= 6.70 \text{ m} @ 0.4 \text{ kg/m} = 2.68$ kg. Total = 11.16 kg. or 0.112 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = $0.112 \times 0.75/40 = 0.0021$ qtl = 0.21 kg	day	0.51	247.00	125.97
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	0.21	59.90	12.58 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1.2	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 $1 \times 2.0 \times 2.0 \text{ m} = 4 \text{ sqm}$ Qty taken for cost of using once = $4/40 = 0.1 \text{ sqm}$ Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	455.90	45.59 (A)
11.7	(ii) 25mm thick cement concrete 1:2:4 in pavement $2.00 \times 2.00 \times 0.025 = 0.1$ Qty taken for cost of using once = $0.100/40 = 0.0025 \text{ cum}$ Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
9999	Mortar and labour for hoisting and finishing TOTAL Add Water Charges @ 1% except on A i.e on $(2,060.84 - 1,880.78 =) 180.06$ TOTAL Add CPOH @ 15% except on A i.e on $(2,062.64 - 1,880.78 =) 181.86$ Cost of 0.45 cum Cost of 1 cum Say	L.S.	36.30	1.49	54.09 2,060.84 1.80 2,062.64 27.28 2,089.92 4,644.27 4,644.25

4.6 Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), including the cost of required centering, shuttering complete.

4.6.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for 25 no kerbs, $40 \times 30 \times 20 \text{ cm}$ $= 25 \text{ no} \times 0.40 \text{ m} \times 0.30 \text{ m} \times 0.20 \text{ m} = 0.6 \text{ cum}$</i> MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work Centering and shuttering (1) Mould (i) Plate 3mm thick $0.28 \text{ sqm. @ } 23.55 \text{ kg/m}^2 = 6.59 \text{ kg.}$ (ii) Flat 10x5mm Handle $2 \times 0.25 \times 0.4 = @ 0.4 \text{ kg/m} = 0.20 \text{ kg.}$ $= 6.79 \text{ kg. or } 0.068 \text{ qtl.}$ Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = $0.068 \times 0.75/40 = 0.001275 \text{ qtl} = 0.1275 \text{ kg}$ Rate as per Item Number 10.1 of SH: Steel work (2) Moulding Platform	cum	0.60	4,514.05	2,708.43 (A)
10.1		kg	0.1275	59.90	7.64 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1.2	Assuming platform will become unserviceable after use of 40 times. (i) Brick on edge flooring cement mortar 1:6 1x2.0x2.0m = 4 sqm. Qty taken for cost of using once = 4/40 = 0.1 sqm Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	455.90	45.59 (A)
11.7	(ii) 25mm thick cement concrete 1:2:4 in pavement 2.00x2.00x0.025 = 0.10 Qty taken for cost of using once = 0.100/40 = 0.0025 cum Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
9999	Mortar and labour for finishing	L.S.	30.54	1.49	45.50
	TOTAL				2,818.97
	Add Water Charges @ 1% except on A i.e on (2,818.97 - 2,773.47 =) 45.50				0.46
	TOTAL				2,819.43
	Add CPOH @ 15% except on A i.e on (2,819.43 - 2,773.47 =) 45.96				6.89
	Cost of 0.6 cum				2,826.32
	Cost of 1 cum				4,710.53
	Say				4,710.55

4.7 Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete:

4.7.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for 25 no blocks, 40x20x30cm</i> <i>=25 no x 0.40m x 0.30m x 0.20m = 0.60 cum</i> MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work Centering and shuttering (1) Mould (i) Plate 3mm thick 0.28 sqm. @ 23.55kg/m2 = 6.59 kg. (ii) Flat 10x5mm Handle 2x0.25 x0.4 = @ 0.4kg/m = 0.20 kg. = 6.79kg. or 0.068 qtl. Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = 0.068x0.75/40 = 0.001275 qtl = 0.1275 kg Rate as per Item Number 10.1 of SH: Steel work	cum	0.60	4,514.05	2,708.43 (A)
10.1		kg	0.1275	59.90	7.64 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.1.2	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 $1 \times 2.0 \times 2.0 \text{ m} = 4 \text{ sqm}$. Qty taken for cost of using once = $4/40 = 0.1 \text{ sqm}$ Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	455.90	45.59 (A)
11.7	(ii) 25mm thick cement concrete 1:2:4 in pavement $2.00 \times 2.00 \times 0.025 = 0.10$ Qty taken for cost of using once = $0.100/40 = 0.0025 \text{ cum}$ Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
3.8	Mortar 1:3 for Fixing $0.202/100 \times 25 = 0.051$ Rate as per Item Number 3.8 of SH: Mortars Extra for Labour for lifting $27/100 \times 25 = 0.675 \text{ or } 0.68$	cum	0.051	4,145.55	211.42
0115	Coolie Labour for hoisting and setting in position	day	0.68	247.00	167.96
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0114	Beldar Finishing $25 \times 2(0.4 \times 0.3) = 6.0 \text{ sqm}$.	day	3.60	247.00	889.20
	TOTAL				4,222.65
	Add Water Charges @ 1% except on A i.e on $(4,222.65 - 2,773.47) = 1,449.18$				14.49
	TOTAL				4,237.14
	Add CPOH @ 15% except on A i.e on $(4,237.14 - 2,773.47) = 1,463.67$				219.55
	Cost of 0.6 cum				4,456.69
	Cost of 1 cum				7,427.82
	Say				7,427.80

4.7.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.5	<i>Details of cost for 25 no blocks, $40 \times 20 \times 30 \text{ cm}$ $= 25 \text{ no} \times 0.40 \text{ m} \times 0.30 \text{ m} \times 0.20 \text{ m} = 0.6 \text{ cum}$</i> MATERIAL: Cement concrete 1:3:6 Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.60	4,024.00	2,414.40 (A)
3.8	Mortar for fixing cement mortar 1:3 Rate as per Item Number 3.8 of SH: Mortars Centering and shuttering (1) Mould (i) Plate 3mm thick. $0.28 \text{ sqm. @ } 23.55 \text{ kg/m}^2 = 6.59 \text{ kg}$.	cum	0.051	4,145.55	211.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.1	(ii) Flat 10x5mm Handle $2 \times 0.25 \times 0.4 = @ 0.4 \text{ kg/m} = 0.20 \text{ kg.}$ $= 6.79 \text{ kg. or } 0.068 \text{ qtl.}$ Assuming shuttering will become unserviceable after use of 40 times and taking 75% credit. Qty taken for cost of using once = $0.068 \times 0.75 / 40 = 0.001275 \text{ qtl} = 0.1275 \text{ kg}$ Rate as per Item Number 10.1 of SH: Steel work	kg	0.1275	59.90	7.64 (A)
11.1.2	(2) Moulding Platform Assuming platform will become unserviceable after use of 40 times, (i) Brick on edge flooring cement mortar 1:6 $1 \times 2.0 \times 2.0 \text{ m} = 4 \text{ sqm.}$ Qty taken for cost of using once = $4 / 40 = 0.1 \text{ sqm}$ Rate as per Item Number 11.1.2 of SH: Flooring	sqm	0.10	455.90	45.59 (A)
11.7	(ii) 25mm thick cement concrete 1:2:4 in pavement $2.00 \times 2.00 \times 0.025 = 0.100$ Qty taken for cost of using once = $0.100 / 40 = 0.0025 \text{ cum}$ Rate as per Item Number 11.7 of SH: Flooring	cum	0.0025	4,725.95	11.81 (A)
0115	LABOUR: Extra Labour for lifting material upto floor V level Coolie	day	0.68	247.00	167.96
0123	Labour for hoisting and setting in position Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0114	Beldar	day	3.60	247.00	889.20
	TOTAL				3,928.62
	Add Water Charges @ 1% except on A i.e on (3,928.62 - 2,479.44 =) 1,449.18				14.49
	TOTAL				3,943.11
	Add CPOH @ 15% except on A i.e on (3,943.11 - 2,479.44 =) 1,463.67				219.55
	Cost of 0.6 cum				4,162.66
	Cost of 1 cum				6,937.77
	Say				6,937.75

4.8 Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete :

4.8.1 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm finished contents = $1 \text{ m} \times 0.5 \text{ m} \times 0.1 \text{ m} = 0.05 \text{ cum}$</i>				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	MATERIAL: Cement concrete 1:2:4 Net qty = $0.05 [6 \times 0.5 \times \{2 \times 1/2 (0.05 + 7)\} \times 0.074]$ = 0.023cum Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.023	4,514.05	103.82 (A)
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc. Extra Labour for lifting material upto floor V level	L.S.	26.91	1.49	40.10
0115	Coolie Labour for hoisting and setting in position	day	0.056	247.00	13.83
0123	Mason (brick layer) 1 st class	day	0.05	301.00	15.05
0114	Beldar	day	0.30	247.00	74.10
3.7	Cement mortar 1:2 for fixing Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	4,863.85	9.73
	TOTAL				256.63
	Add Water Charges @ 1% except on A i.e on (256.63 - 103.82 =) 152.81				1.53
	TOTAL				258.16
	Add CPOH @ 15% except on A i.e on (258.16 - 103.82 =) 154.34				23.15
	Cost of 0.05 cum				281.31
	Cost of 1 cum				5,626.20
	Say				5,626.20

4.8.2 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.5	<i>Details of cost for one block of overall size 1m x 0.50m and 0.10m thick having 6 vertical hollows, 40x20x30cm</i> finished contents = $1m \times 0.5m \times 0.1m = 0.05cum$ MATERIAL: Cement concrete 1:3:6 Net qty = $0.05 [6 \times 0.5 \times \{2 \times 1/2 (0.05 + 7)\} \times 6.074]$ = 0.023cum Rate as per Item Number 4.1.5 of SH: Concrete work	cum	0.023	4,024.00	92.55 (A)
9999	Centering and shuttering including T&P charges, hire charges of steel mould, table vibrator, rammer, bolts nuts & washers etc. Extra Labour for lifting material upto floor V level	L.S.	26.91	1.49	40.10
0115	Coolie Labour for hoisting and setting in position	day	0.056	247.00	13.83
0122	Mason (for plaster of paris work) 1 st class	day	0.05	301.00	15.05
0114	Beldar Mortar for fixing cement mortar 1:2	day	0.30	247.00	74.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.002	4,863.85	9.73
	TOTAL				245.36
	Add Water Charges @ 1% except on A i.e on (245.36 - 92.55 =) 152.81				1.53
	TOTAL				246.89
	Add CPOH @ 15% except on A i.e on (246.89 - 92.55 =) 154.34				23.15
	Cost of 0.05 cum				270.04
	Cost of 1 cum				5,400.80
	Say				5,400.80

4.9 Precasting and placing in position 125 mm dia Bollards 600 mm high of required shape, including providing M.S. Pipe Sleeve 50 mm dia 300 mm long in the Bollard and M.S. Pipes 40 mm dia and 450 mm long with 150x150x6 mm M.S. plate welded at bottom and embedded 150 mm in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), including necessary excavation of size 250x250x450 mm deep for the same in bitumen/concrete pavement at specified spacing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.1.3	<i>Details of cost for one bollard</i> MATERIAL: Cement concrete 1:2:4 1/4x0.125x0.60 = 0.007cum Rate as per Item Number 5.1.3 of SH: Reinforced cement concrete work Centering and shuttering 3.14x(0.125)x0.60 = 0.24 sqm	cum	0.007	4,703.90	32.93 (A)
5.9.1	Rate as per Item Number 5.9.1 of SH: Reinforced cement concrete work M.S. pipes (medium class) 50 mm dia sleeve =1x0.30x5.10=1.53 kg 40 mm dia pipe =1x0.45x3.61 =1.62 kg M.S. plate 3mm thick =(0.15x0.15)x23.55 =0.53 kg Total =3.68 kg	sqm	0.24	166.90	40.06 (A)
10.1	Rate as per Item Number 10.1 of SH: Steel work Excavation 0.25x0.25x0.45 = 0.03 cum	kg	3.68	59.90	220.43 (A)
2.8.1	Rate as per Item Number 2.8.1 of SH: Earth work Cement concrete 1:3:6	cum	0.03	130.80	3.92 (A)
4.1.5	Rate as per Item Number 4.1.5 of SH: Concrete work 6 mm rendering (1:3) (0.24+0.01) = 0.25 sqm	cum	0.03	4,024.00	120.72 (A)
5.23	Rate as per Item Number 5.23 of SH: Reinforced cement concrete work	sqm	0.25	101.00	25.25 (A)
9999	Carriage and fixing charges	L.S.	13.00	1.49	19.37
	TOTAL				462.68
	Add Water Charges @ 1% except on A i.e on (462.68 - 443.31 =) 19.37				0.19
	TOTAL				462.87
	Add CPOH @ 15% except on A i.e on (462.87 - 443.31 =) 19.56				2.93
	Cost of each				465.80
	Say				465.80

4.10 Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for 10 sqm</i> Cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) $10 \times 0.040 = 0.40$ cum Rate as per Item Number 4.1.3 of SH: Concrete work Add deduct for difference of cost between 20mm size and 12.5mm size	cum	0.40	4,514.05	1,805.62 (A)
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	-0.67	1,050.00	-703.50
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.67	1,050.00	703.50
	Add for delay:				
0123	Mason (brick layer) 1 st class	day	0.40	301.00	120.40
0124	Mason (brick layer) 2nd class	day	0.40	273.00	109.20
9999	Sundries (Form work etc.)	L.S.	1.95	1.49	2.91
	TOTAL				2,038.13
	Add Water Charges @ 1% except on A i.e on (2,038.13 - 1,805.62 =) 232.51				2.33
	TOTAL				2,040.46
	Add CPOH @ 15% except on A i.e on (2,040.46 - 1,805.62 =) 234.84				35.23
	Cost of 10 sqm				2,075.69
	Cost of 1 sqm				207.57
	Say				207.55

4.11 Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for 10 sqm</i> MATERIAL: Cement concrete 1:2:4 = $10 \times 0.05 = 0.50$ cum Rate as per Item Number 4.1.3 of SH: Concrete work Add for delay :	cum	0.50	4,514.05	2,257.02 (A)
0123	Mason (brick layer) 1 st class	day	0.40	301.00	120.40
0124	Mason (brick layer) 2nd class	day	0.40	273.00	109.20
9999	Sundries (Form work etc.)	L.S.	13.52	1.49	20.14
	TOTAL				2,506.76
	Add Water Charges @ 1% except on A i.e on (2,506.76 - 2,257.02 =) 249.74				2.50
	TOTAL				2,509.26
	Add CPOH @ 15% except on A i.e on (2,509.26 - 2,257.02 =) 252.24				37.84
	Cost of 10 sqm				2,547.10
	Cost of 1 sqm				254.71
	Say				254.70

4.12 Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for per bag of 50kg. of cement</i>				
	MATERIAL:				
	Approved water proofing materials according to the recommended proportions				
1213	Water proofing materials	kilogram	1.00	25.00	25.00
9999	Carriage of water proofing material and labour for mixing etc.	L.S.	3.64	1.49	5.42
	TOTAL				30.42
	Add Water Charges @ 1%				0.30
	TOTAL				30.72
	Add CPOH @ 15%				4.61
	Cost per 50kg cement				35.33
	Say				35.35

4.13 Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.017	37,000.00	629.00
0771	Kerosene oil	litre	1.23	30.00	36.90
	Fuel for heating				
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	87.60	1.49
	LABOUR:				
	Cleaning surface and applying kerosene oil				
0114	Beldar	day	0.12	247.00	29.64
	Heating the material-				
0115	Coolie	day	0.07	247.00	17.29
	Spreading hot tar over damp proof course				
0131	Painter	day	0.20	273.00	54.60
9999	Sundries (Carriage of Kerosene, steam coal, brushes, T&P etc.)	L.S.	33.15	1.49	49.39
	TOTAL				832.31
	Add Water Charges @ 1%				8.32
	TOTAL				840.63
	Add CPOH @ 15%				126.09
	Cost of 10 sqm				966.72
	Cost of 1 sqm				96.67
	Say				96.65

4.14 Extra for concrete work in superstructure above floor V level for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	<i>Details of cost for one cum</i> Extra labour element required for lifting of materials (0.75x2.00 = 1.50) Coolie <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add Water Charges @ 1%</div> <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add CPOH @ 15%</div> <div style="text-align: right;">Cost of 1 cum</div> <div style="text-align: right;">Say </div>	day	1.50	247.00	370.50 370.50 3.70 374.20 56.13 430.33 430.35

4.15 Extra for laying concrete in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Note for item No. 4.15 :- The quantity will be calculated by multiplying the depth measured from the sub-soil water level upto centre of gravity of concrete under sub-soil water level with quantity of concrete in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.10 m. 0.05 m or more shall be taken as 0.10 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	<i>Details of cost for 14 cum per 0.3m depth</i> Quantity of concrete = 14 cum. pumping hours = 3 hrs. or 0.375 day. Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	500.00	187.50
0114	Beldar for cleaning slush <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add Water Charges @ 1%</div> <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add CPOH @ 15%</div> <div style="text-align: right;">Cost of 14 cum per 0.3m depth</div> <div style="text-align: right;">Cost of 1 cum per metre depth</div> <div style="text-align: right;">Say </div>	day	4.00	247.00	988.00 1,175.50 11.76 1,187.26 178.09 1,365.35 325.08 325.10

4.16 Extra for laying concrete in or under foul positions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	<i>Details of cost for 1 cum</i> Extra labour due to slow progress- Mason (brick layer) 1 st class	day	0.02	301.00	6.02
0124	Mason (brick layer) 2nd class	day	0.02	273.00	5.46
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	0.15	247.00	37.05
	<div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add Water Charges @ 1%</div> <div style="text-align: right;">TOTAL</div> <div style="text-align: right;">Add CPOH @ 15%</div> <div style="text-align: right;">Cost of 1 cum</div> <div style="text-align: right;">Say </div>				110.28 1.10 111.38 16.71 128.09 128.10

4.17 Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0287	Brick Aggregate (Single size) : 40 mm nominal size	cum	0.75	500.00	375.00
2260	Carriage of brick aggregate	cum	0.75	95.22	71.41
0983	Fine sand (zone IV)	cum	0.06	640.00	38.40
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.06	87.60	5.26
	LABOUR:				
	Dressing the gound including cutting and filling upto 15cm				
0114	Beldar	day	0.16	247.00	39.52
0115	Coolie	day	0.11	247.00	27.17
	MATERIAL:				
	For C.C 1:3:6				
	Cement concrete 1:3:6 Qty. of cement concrete 1:3:6 on 10 sqm. area = 0.5cum.				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.35	1,050.00	367.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.12	1,050.00	126.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.47	87.60	41.17
0982	Coarse sand (zone III)	cum	0.23	1,120.00	257.60
2203	Carriage of coarse sand	cum	0.23	87.60	20.15
0367	Portland Cement	tonne	0.11	5,000.00	550.00
2209	Carriage of cement	tonne	0.11	77.87	8.57
	LABOUR:				
	For C.C 1:3:6				
0114	Beldar	day	1.00	247.00	247.00
0123	Mason (brick layer) 1 st class	day	0.05	301.00	15.05
0101	Bhisti	day	0.33	260.00	85.80
9999	Hire and running charges of mechanical mixer	L.S.	13.39	1.49	19.95
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0155	Mason (average)	day	0.27	287.00	77.49
0114	Beldar	day	1.08	247.00	266.76
0115	Coolie	day	1.08	247.00	266.76
	TOTAL				2,916.63
	Add Water Charges @ 1%				29.17
	TOTAL				2,945.80
	Add CPOH @ 15%				441.87
	Cost of 10 sqm				3,387.67
	Cost of 1 sqm				338.77
	Say				338.75

4.18 Extra for addition of synthetic polyester triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement concrete/RCC/Flooring /water retaining structures by using 125 gms of synthetic polyester triangular fibre for 50 kgs cement used as per directions of Engineer-in-Charge

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8732	<i>Details of cost for per bag of 50 kg. of cement used in concrete</i> MATERIAL: Synthetic ployster triangular fibre of length 12 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 including labour for mixing. TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost per bag of 50kg of cement Say	kg	0.125	365.00	45.62 45.62 0.46 46.08 6.91 52.99 53.00

4.19 Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note : 1) Excess/less cement used than specified in this item is payable/ recoverable separately. 2) Fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS : 456. Uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456 -2000 in the items of BMC and RMC.

4.19.1 All works upto plinth level :

4.19.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0293	<i>Details of cost for 1 cum</i> MATERIAL: Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.24	5,000.00	1,200.00
2209	Carriage of cement	tonne	0.24	77.87	18.69
7318	Plasticizer / super plasticizer	kilogram	1.20	36.50	43.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer km/	cum	10.00	30.00	300.00
	Pumping charges of concrete including	cum	1.00	130.00	130.00
0009	Hire charges of pump, piping work & accessories etc.				
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,278.90
	Add Water Charges @ 1%				42.79
	TOTAL				4,321.69
	Add CPOH @ 15%				648.25
	Cost of 1 cum				4,969.94
	Say				4,969.95

4.19.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
7318	Plasticizer / super plasticizer	kilogram	1.10	36.50	40.15
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer km/	cum	10.00	30.00	300.00
0009	Pumping charges of concrete including	cum	1.00	130.00	130.00
	Hire charges of pump, piping work & accessories etc.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR: for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,173.69
	Add Water Charges @ 1%				41.74
	TOTAL				4,215.43
	Add CPOH @ 15%				632.31
	Cost of 1 cum				4,847.74
	Say				4,847.75

4.19.2 All works above plinth and upto floor V level :

4.19.2.1 M-15 grade plain cement concrete. (cement content considered @ 240 kg /cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.24	5,000.00	1,200.00
2209	Carriage of cement	tonne	0.24	77.87	18.69
7318	Plasticizer / super plasticizer	kilogram	1.20	36.50	43.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting material upto floor level = $0.75 \times 2.50 = 1.88$				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,613.26
	Add Water Charges @ 1%				46.13
	TOTAL				4,659.39
	Add CPOH @ 15%				698.91
	Cost of 1 cum				5,358.30
	Say				5,358.30

4.19.2.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
7318	Plasticizer / super plasticizer	kilogram	1.10	36.50	40.15
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting material upto floor level = $0.75 \times 2.50 = 1.88$				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,508.05
	Add Water Charges @ 1%				45.08
	TOTAL				4,553.13
	Add CPOH @ 15%				682.97
	Cost of 1 cum				5,236.10
	Say				5,236.10

4.20 Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.

Note : 1) Excess / less cement used than specified in this item is payable / recoverable separately.

4.20.1 All works upto plinth level :

4.20.1.1 M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement	tonne	0.24	5,000.00	1,200.00
2209	Carriage of cement	tonne	0.24	77.87	18.69
7318	Plasticizer / super plasticizer	kilogram	1.20	36.50	43.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	Pumping charges of concrete including	cum	1.00	130.00	130.00
0009	Hire charges of pump, piping work & accessories etc.				
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,379.63
	Add Water Charges @ 1%				43.80
	TOTAL				4,423.43
	Add CPOH @ 15%				663.51
	Cost of 1 cum				5,086.94
	Say				5,086.95

4.20.1.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
7318	Plasticizer / super plasticizer	kilogram	1.10	36.50	40.15
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	Pumping charges of concrete including	cum	1.00	130.00	130.00
0009	Hire charges of pump, piping work & accessories etc.				
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,274.42
	Add Water Charges @ 1%				42.74
	TOTAL				4,317.16
	Add CPOH @ 15%				647.57
	Cost of 1 cum				4,964.73
	Say				4,964.75

4.20.2 All works above plinth and upto floor V level :

4.20.2.1 M-15 grade plain cement concrete (cement content considered @ 240 kg /cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement	tonne	0.24	5,000.00	1,200.00
2209	Carriage of cement	tonne	0.24	77.87	18.69
7318	Plasticizer / super plasticizer	kilogram	1.20	36.50	43.80
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting.material upto floor level = $0.75 \times 2.50 = 1.88$				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,713.99
	Add Water Charges @ 1%				47.14
	TOTAL				4,761.13
	Add CPOH @ 15%				714.17
	Cost of 1 cum				5,475.30
	Say				5,475.30

4.20.2.2 M-10 grade plain cement concrete (cement content considered @ 220 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. $0.05 = 0.65$ cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.47	1,120.00	526.40
2203	Carriage of coarse sand	cum	0.47	87.60	41.17
0367	Portland Cement	tonne	0.22	5,000.00	1,100.00
2209	Carriage of cement	tonne	0.22	77.87	17.13
7318	Plasticizer / super plasticizer	kilogram	1.10	36.50	40.15
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
	LABOUR:				
	for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting.material upto floor level = $0.75 \times 2.50 = 1.88$				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,608.78
	Add Water Charges @ 1%				46.09
	TOTAL				4,654.87
	Add CPOH @ 15%				698.23
	Cost of 1 cum				5,353.10
	Say				5,353.10

SUB HEAD : 5.0

**REINFORCED CEMENT
CONCRETE WORK**

5.1 : Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :

5.1.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.64	1,050.00	672.00
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.21	1,050.00	220.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement (0.425 cum)	tonne	0.61	5,000.00	3,050.00
2209	Carriage of cement	tonne	0.61	77.87	47.50
	LABOUR:				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				5,452.79
	Add Water Charges @ 1%				54.53
	TOTAL				5,507.32
	Add CPOH @ 15%				826.10
	Cost of 1 cum				6,333.42
	Say				6,333.40

5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement (0.2833 cum)	tonne	0.40	5,000.00	2,000.00
2209	Carriage of cement	tonne	0.40	77.87	31.15
	LABOUR:				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				4,386.44
	Add Water Charges @ 1%				43.86
	TOTAL				4,430.30
	Add CPOH @ 15%				664.54
	Cost of 1 cum				5,094.84
	Say				5,094.85

5.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1,050.00	703.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1,050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	87.60	77.96
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2225 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
	LABOUR:				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.07 8	800.00	56.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	14.30	1.49	21.31
	TOTAL				4,049.86
	Add Water Charges @ 1%				40.50
	TOTAL				4,090.36
	Add CPOH @ 15%				613.55
	Cost of 1 cum				4,703.91
	Say				4,703.90

5.2 : Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :

5.2.1 1:1:2 (1 cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.18 cum</i>				
	Counter fort Retaining wall 4.5m high and 6m long.				
	Base- 1x6x1.5x0.2 = 1.80 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Heel - $1 \times 6 \times 0.3 \times 0.2 = 0.36$ cum. $1 \times 6 \times 0.3 \times 0.3 = 0.54$ cum. Stem - $1 \times 6 \times 4.3 \times 0.2$ (Avg.) = 5.16 cum. Triangular counterfort - $2 \times 1/2 \times 4.4 \times 1.5 \times 0.2 = 1.32$ cum. Total quantity for details of cost = 9.18 cum. MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.8752	1,050.00	6,168.96
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	1.9278	1,050.00	2,024.19
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	87.60	683.54
0982	Coarse sand (zone III)	cum	3.9015	1,120.00	4,369.68
2203	Carriage of coarse sand	cum	3.9015	87.60	341.77
0367	Portland Cement (0.425 cum)	tonne	5.5998	5,000.00	27,999.00
2209	Carriage of cement	tonne	5.5998	77.87	436.05
	LABOUR:				
0114	Beldar	day	11.29	247.00	2,788.63
0115	Coolie	day	7.53	247.00	1,859.91
0101	Bhisti	day	8.26	260.00	2,147.60
0123	Mason (brick layer) 1 st class	day	0.92	301.00	276.92
0124	Mason (brick layer) 2nd class	day	0.92	273.00	251.16
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	300.00	192.00
9999	Sundries	L.S.	131.82	1.49	196.41
9999	Scaffolding	L.S.	420.03	1.49	625.84
	Extra labour for lifting of material upto floor V level:				
	0.75x9.18x2.5				
0115	Coolie	day	17.20	247.00	4,248.40
	TOTAL				55,122.06
	Add Water Charges @ 1%				551.22
	TOTAL				55,673.28
	Add CPOH @ 15%				8,350.99
	Cost of 9.18 cum				64,024.27
	Cost of 1 cum				6,974.32
	Say				6,974.30

5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 9.18 cum. MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	5.2326	1,050.00	5,494.23
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.5704	1,050.00	2,698.92
2202	Carriage of stone aggregate below 40 mm nominal size	cum	7.803	87.60	683.54
0982	Coarse sand (zone III)	cum	3.9015	1,120.00	4,369.68
2203	Carriage of coarse sand	cum	3.9015	87.60	341.77

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement (0.2833 cum)	tonne	3.672	5,000.00	18,360.00
2209	Carriage of cement	tonne	3.672	77.87	285.94
	LABOUR:				
0114	Beldar	day	11.29	247.00	2,788.63
0115	Coolie	day	7.53	247.00	1,859.91
0101	Bhisti	day	8.26	260.00	2,147.60
0123	Mason (brick layer) 1 st class	day	0.92	301.00	276.92
0124	Mason (brick layer) 2nd class	day	0.92	273.00	251.16
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	300.00	192.00
9999	Sundries	L.S.	131.82	1.49	196.41
9999	Scaffolding	L.S.	420.03	1.49	625.84
	Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5				
0115	Coolie	day	17.20	247.00	4,248.40
	TOTAL				45,332.95
	Add Water Charges @ 1%				453.33
	TOTAL				45,786.28
	Add CPOH @ 15%				6,867.94
	Cost of 9.18 cum				52,654.22
	Cost of 1 cum				5,735.75
	Say				5,735.75

5.2.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.18 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	6.1506	1,050.00	6,458.13
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	2.0196	1,050.00	2,120.58
2202	Carriage of stone aggregate below 40 mm nominal size	cum	8.1702	87.60	715.71
0982	Coarse sand (zone III)	cum	4.0851	1,120.00	4,575.31
2203	Carriage of coarse sand	cum	4.0851	87.60	357.85
0367	Portland Cement (0.02225 cum)	tonne	2.9376	5,000.00	14,688.00
2209	Carriage of cement	tonne	2.9376	77.87	228.75
	LABOUR:				
0114	Beldar	day	11.29	247.00	2,788.63
0115	Coolie	day	7.53	247.00	1,859.91
0101	Bhisti	day	8.26	260.00	2,147.60
0123	Mason (brick layer) 1 st class	day	0.92	301.00	276.92
0124	Mason (brick layer) 2nd class	day	0.92	273.00	251.16
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.64	800.00	512.00
0012	Vibrator (Needle type 40 mm)	day	0.64	300.00	192.00
9999	Sundries	L.S.	131.82	1.49	196.41
9999	Scaffolding	L.S.	420.03	1.49	625.84

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Extra labour for lifting of material upto floor V level: 0.75x9.18x2.5 Coolie	day	17.20	247.00	4,248.40
	TOTAL				42,243.20
	Add Water Charges @ 1%				422.43
	TOTAL				42,665.63
	Add CPOH @ 15%				6,399.84
	Cost of 9.18 cum				49,065.47
	Cost of 1 cum				5,344.82
	Say				5,344.80

5.3 : Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.67	1,050.00	703.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.22	1,050.00	231.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.89	87.60	77.96
0982	Coarse sand (zone III)	cum	0.445	1,120.00	498.40
2203	Carriage of coarse sand	cum	0.445	87.60	38.98
0367	Portland Cement (0.2225 cum)	tonne	0.32	5,000.00	1,600.00
2209	Carriage of cement	tonne	0.32	77.87	24.92
	LABOUR:				
0155	Mason (average)	day	0.24	287.00	68.88
0114	Beldar	day	2.75	247.00	679.25
0101	Bhisti	day	0.90	260.00	234.00
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.08	800.00	64.00
0012	Vibrator (Needle type 40 mm)	day	0.08	300.00	24.00
9999	Sundries	L.S.	14.30	1.49	21.31
	Extra labour for lifting material upto floor V level:				
	Coolie (2.5x0.75)				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,730.56
	Add Water Charges @ 1%				47.31
	TOTAL				4,777.87
	Add CPOH @ 15%				716.68
	Cost of 1 cum				5,494.55
	Say				5,494.55

5.4 : Providing and laying up to floor five level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.4.1	<i>Details of cost for 1 cum.</i> Cement concrete 1:2:4 Rate as per Item Number 4.4.1 of SH: Concrete work LABOUR: Extra labour for laying CC in RCC work	cum	1.00	4,514.05	4,514.05 (A)
0114	Beldar	day	0.10	247.00	24.70
0101	Bhisti	day	0.20	260.00	52.00
0123	Mason (brick layer) 1 st class	day	0.04	301.00	12.04
0124	Mason (brick layer) 2nd class	day	0.04	273.00	10.92
0128	Mate	day	0.04	260.00	10.40
	Extra labour for lifting material upto floor V level: Coolie (2.50x0.75)				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				5,088.47
	Add Water Charges @ 1% except on A i.e on (5,088.47 - 4,514.05 =) 574.42				5.74
	TOTAL				5,094.21
	Add CPOH @ 15% except on A i.e on (5,094.21 - 4,514.05 =) 580.16				87.02
	Cost of 1 cum				5,181.23
	Say				5,181.25

5.5 : Reinforced cement concrete work in arches, archribs, domes, vaults, shells, folded plate and roofs having slope more than 15° up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 26.73cum for semicircular arch 6m clear span and 9m long and 30cm thick.</i> Cement concrete 1:2:4 = $1 \times 0.50 \times 3.14 \times 6.30 \times 9.00 \times 0.30 = 26.73 \text{ cum}$ MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	17.9091	1,050.00	18,804.56
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	5.8806	1,050.00	6,174.63
2202	Carriage of stone aggregate below 40 mm nominal size	cum	23.7897	87.60	2,083.98
0982	Coarse sand (zone III)	cum	11.8948	1,120.00	13,322.18
2203	Carriage of coarse sand	cum	11.8948	87.60	1,041.98
0367	Portland Cement (0.2225 cum)	tonne	8.5536	5,000.00	42,768.00
2209	Carriage of cement	tonne	8.5536	77.87	666.07
	LABOUR:				
0155	Mason (average)	day	6.42	287.00	1,842.54

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	73.51	247.00	18,156.97
0101	Bhisti	day	24.06	260.00	6,255.60
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	2.14	800.00	1,712.00
0012	Vibrator (Needle type 40 mm)	day	2.14	300.00	642.00
9999	Sundries	L.S.	401.89	1.49	598.82
	Extra for laying CC over curved surfaces				
0123	Mason (brick layer) 1 st class	day	5.00	301.00	1,505.00
0124	Mason (brick layer) 2nd class	day	5.00	273.00	1,365.00
0101	Bhisti	day	1.50	260.00	390.00
0115	Coolie	day	4.50	247.00	1,111.50
	Extra labour for lifting material upto floor V level:				
	Coolie (2.50x0.75x26.73)				
0115	Coolie	day	50.12	247.00	12,379.64
	TOTAL				1,30,820.47
	Add Water Charges @ 1%				1,308.20
	TOTAL				1,32,128.67
	Add CPOH @ 15%				19,819.30
	Cost of 26.73 cum				1,51,947.97
	Cost of 1 cum				5,684.55
	Say				5,684.55

5.6 : Reinforced cement concrete work in chimneys, shafts, up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.2.3	<i>Details of cost for 1 cum</i> MATERIAL: RCC 1:2:4 in chimneys & shafts Rate as per Item Number 5.2.3 of SH:	cum	1.00	5,344.80	5,344.80 (A)
0115	Reinforced cement concrete work Extra labour involved for lifting materials Coolie	day	0.26	247.00	64.22
	TOTAL				5,409.02
	Add Water Charges @ 1% except on A i.e on (5,409.02 - 5,344.80 =) 64.22				0.64
	TOTAL				5,409.66
	Add CPOH @ 15% except on A i.e on (5,409.66 - 5,344.80 =) 64.86				9.73
	Cost of 1 cum				5,419.39
	Say				5,419.40

5.7 : Reinforced cement concrete work in well-steining excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for 1 cum</i> MATERIAL: RCC 1:2:4 in well steining Rate as per Item Number 4.1.3 of SH: Concrete work	cum	1.00	4,514.05	4,514.05 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	LABOUR: Extra labour involved Coolie	day	0.08	247.00	19.76
	TOTAL				4,533.81
	Add Water Charges @ 1% except on A i.e on (4,533.81 - 4,514.05 =) 19.76				0.20
	TOTAL				4,534.01
	Add CPOH @ 15% except on A i.e on (4,534.01 - 4,514.05 =) 19.96				2.99
	Cost of 1 cum				4,537.00
	Say				4,537.00

5.8 : Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 RCC Vertical fins 4m high and 1m center with 2 horizontal fins, all projecting 60cm from face of wall and 5cm thick = 0.66 cum.</i>				
	Cement Concrete 1:1.5.3				
	4x4x0.60x0.05 = 0.48 cum				
	2x3x0.06x0.05 = 0.18 cum				
	Total = 0.66 cum.				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.3762	1,050.00	395.01
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.1848	1,050.00	194.04
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.561	87.60	49.14
0982	Coarse sand (zone III)	cum	0.2805	1,120.00	314.16
2203	Carriage of coarse sand	cum	0.2805	87.60	24.57
0367	Portland Cement (0.2833 cum)	tonne	0.264	5,000.00	1,320.00
2209	Carriage of cement	tonne	0.264	77.87	20.56
	LABOUR:				
0114	Beldar	day	0.79	247.00	195.13
0115	Coolie	day	0.56	247.00	138.32
0101	Bhisti	day	0.60	260.00	156.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
9999	Scaffolding	L.S.	30.16	1.49	44.94
9999	Sundries	L.S.	9.49	1.49	14.14
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.05	800.00	40.00
0012	Vibrator (Needle type 40 mm)	day	0.05	300.00	15.00
	Extra for lifting materials upto floor five level				
0115	Coolie	day	0.18	247.00	44.46
	Extra for restricted working in fins				
0123	Mason (brick layer) 1 st class	day	0.05	301.00	15.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0124	Mason (brick layer) 2nd class	day	0.05	273.00	13.65
0114	Beldar	day	0.10	247.00	24.70
0101	Bhisti	day	0.15	260.00	39.00
	TOTAL				3,092.31
	Add Water Charges @ 1%				30.92
	TOTAL				3,123.23
	Add CPOH @ 15%				468.48
	Cost of 0.66 cum				3,591.71
	Cost of 1 cum				5,441.98
	Say				5,442.00

5.9 : Centering and shuttering including strutting, propping etc. and removal of form for :

5.9.1 Foundations, footings, bases of columns, etc. for mass concrete

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size 2.7mx2.7mx 1.00m</i>				
	<i>Contact area = 10.8 sqm</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.34	1,050.00	357.00
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7326	Corner angle 45x45x5 mm 1.50 m long	each	0.085	300.00	25.50
	Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1,160.00	197.20
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7328	Double clip (bridge clip)	each	0.34	97.00	32.98
	Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$				
7329	Single clip	each	0.17	77.00	13.09
	Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$				
7330	M.S. tube 40 mm dia	metre	0.2295	280.00	64.26
	Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$				
9999	Assembly nuts & bolts	L.S.	22.10	1.49	32.93
	Qty taken for cost of using once = $1040 \times 0.85 / 40 = 22.10$				
9999	Carriage	L.S.	78.00	1.49	116.22
	LABOUR:				
0116	Fitter (grade 1)	day	0.75	301.00	225.75
0114	Beldar	day	1.50	247.00	370.50
9999	Shuttering oil	L.S.	52.00	1.49	77.48
9999	Sundries	L.S.	26.00	1.49	38.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1,551.65
	Add Water Charges @ 1%				15.52
	TOTAL				1,567.17
	Add CPOH @ 15%				235.08
	Cost of 10.8 sqm				1,802.25
	Cost of 1 sqm				166.88
	Say				166.90

5.9.2 Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Details for 7.9m long and 1.00m high wall Area of contact 2x7.9x1.0 = 15.8 sqm.</i>				
	MATERIAL:				
	Assuming shuttering material will become unserviceable after use of 40 times				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm 2x3x2x2 = 24Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	1,050.00	535.50
7327	100 mm channel shoulder 2.5 m long 4x2 = 8 Qty taken for cost of using once = 8x0.85/40 = 0.17	each	0.17	1,160.00	197.20
7328	Double clip (bridge clip) 2x6x2 = 24 Qty taken for cost of using once = 24x0.85/40 = 0.51	each	0.51	97.00	49.47
7329	Single clip 2x3x2 = 12 Qty taken for cost of using once = 12x0.85/40 = 0.255	each	0.255	77.00	19.64
7330	M.S. tube 40 mm dia 2x2x8m = 32m Qty taken for cost of using once = 32x0.85/40 = 0.68	metre	0.68	280.00	190.40
9999	Nut & Bolts Qty taken for cost of using once = 1300x0.85/40 = 27.62	L.S.	27.62	1.49	41.15
9999	Carriage LABOUR:	L.S.	78.00	1.49	116.22
0116	Fitter (grade 1)	day	3.50	301.00	1,053.50
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries	L.S.	52.00	1.49	77.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,878.78
	Add Water Charges @ 1%				38.79
	TOTAL				3,917.57
	Add CPOH @ 15%				587.64
	Cost of 15.8 sqm				4,505.21
	Cost of 1 sqm				285.14
	Say				285.15

5.9.3 Suspended floors, roofs, landings, balconies and access platform

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m</i>				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
	1. Plates (size 0.75x0.60) Angle 40x40x5mm				
	2x0.75= 1.50 m				
	2x0.60= 1.20 m				
	= 2.70 m @ 3.00 kg/m = 8.10 kg sheet 1.6 mm thick				
	0.75x0.60 = 0.45 sqm				
	0.45 sqm @ 12.55kg/sqm = 5.65kg				
	Weight of one plate = 13.75kg				
	Add for wastage @ 5% = 0.69 kg				
	Total = 14.44kg				
	Total weight of all plates = 5x6x14.44 = 433.20 kg.				
	Qty taken for cost using once = 433.2x0.85/40 = 9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	59.90	551.41 (A)
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1,825.00	194.00
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1,150.00	146.62
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	22.10	1.49	32.93
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	130.00	1.49	193.70
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	301.00	903.00
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries, paper tape etc	L.S.	49.70	1.49	74.05
	TOTAL				3,693.93
	Add Water Charges @ 1% except on A i.e on (3,693.93 - 551.41 =) 3,142.52				31.43
	TOTAL				3,725.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (3,725.36 - 551.41 =) 3,173.95				476.09
	Cost of 13.5 sqm				4,201.45
	Cost of 1 sqm				311.22
	Say				311.20

5.9.4 Shelves (Cast in situ)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a room 4.50x3 =13.50 sqm, height 3.5 m</i>				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
	1. Plates (size 0.75 x 0.60) Angle 40x40x5mm				
	2x0.75= 1.50 m				
	2x0.60 = 1.20 m				
	= 2.70 m @ 3.00 kg/m = 8.1 kg sheet 1.6 mm thick				
	0.75x0.60 = 0.45 sqm				
	0.45 sqm @ 12.55kg/sqm = 5.65kg				
	Weight of one plate = 13.75kg				
	Add for wastage @ 5% = 0.69 kg				
	Total = 14.44kg				
	Total weight of all plates = 5x6x14.44 = 433.20 kg.				
	Qty taken for cost using once =				
	433.2x0.85/40 = 9.2055 kg				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	9.2055	59.90	551.41 (A)
7342	Adjustable span ESO+SI (2.35-3.40)	each	0.1063	1,825.00	194.00
	Qty taken for cost using once = 5x0.85/40 = 0.1063				
7343	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	0.1275	1,150.00	146.62
	Qty taken for cost using once = 6x0.85/40 = 0.1275				
9999	Assembly nut & bolts etc.	L.S.	22.10	1.49	32.93
	Qty taken for cost using once = 1040x0.85/40 = 22.10				
9999	Carriage	L.S.	130.00	1.49	193.70
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	301.00	903.00
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries, paper tape etc	L.S.	49.70	1.49	74.05
	TOTAL				3,693.93
	Add Water Charges @ 1% except on A i.e on (3,693.93 - 551.41 =) 3,142.52				31.43
	TOTAL				3,725.36
	Add CPOH @ 15% except on A i.e on (3,725.36 - 551.41 =) 3,173.95				476.09
	Cost of 13.5 sqm				4,201.45
	Cost of 1 sqm				311.22
	Say				311.20

5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<p><i>Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor Cubical contents</i> $6.60 \times 0.5 \times 0.3 = 0.99 \text{ cum}$ $1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$ MATERIAL: Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material 1. Steel plates for side and bottom (plate size 1.20 x 0.50m) Angle 40x40x5mm $2 \times 1.20 = 2.40 \text{ m}$ $3 \times 0.50 = 1.50 \text{ m}$ Total 3.90 m @ 3.00 kg/m = 11.70 kg sheet 1.6 mm thick 1.20m x 0.50 m = 0.60 sqm. 0.60 sqm @ 12.55 kg/sqm. = 7.53 kg. Weight of one plate = 19.23 kg. Add for wastage 5% 0.96 kg. Total = 20.19 kg. Total weight of all plates $3 \times 5 \times 20.19 = 302.85 \text{ kg}$ Qty taken for cost of using once = $302.85 \times 85/40 = 6.4356 \text{ kg}$</p>				
10.1	Rate as per Item Number 10.1 of SH: Steel work	kg	6.4356	59.90	385.49 (A)
7343	Adjustable telescopic prop 3 m (2.02-3.75 m) Qty taken for cost of using once = $6 \times 0.85/40 = 0.1275 \text{ m}$	each	0.1275	1,150.00	146.62
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = $5 \times 0.85/40 = 0.1063 \text{ m}$	each set	0.1063	422.00	44.86
9999	Assembly nut & bolts etc. Qty taken for cost of using once = $1040 \times 0.85/40 = 22.10$	L.S.	22.10	1.49	32.93
9999	Carriage LABOUR:	L.S.	78.00	1.49	116.22
0116	Fitter (grade 1)	day	1.25	301.00	376.25
0114	Beldar	day	2.50	247.00	617.50
9999	Shuttering oil	L.S.	39.00	1.49	58.11
9999	Sundries, paper tape etc	L.S.	24.61	1.49	36.67
	TOTAL				1,814.65
	Add Water Charges @ 1% except on A i.e on (1,814.65 - 385.49 =) 1,429.16				14.29
	TOTAL				1,828.94
	Add CPOH @ 15% except on A i.e on (1,828.94 - 385.49 =) 1,443.45				216.52
	Cost of 7.8 sqm				2,045.46
	Cost of 1 sqm				262.24
	Say				262.25

5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4.5 sqm.</i> <i>Size of column 450x450mm and 2.5m high</i> <i>Area of contact = $4 \times 0.45 \times 2.5 = 4.5$ sqm</i> MATERIAL: Assuming shuttering will become unserviceable after use of 40 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material Wall form panel 1250x450 mm Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	1,040.00	176.80
7331	Corner angle 45x45x5 mm 2.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	340.00	28.90
7332	Column clamp 450x1070 mm Qty taken for cost of using once = $5 \times 0.85 / 40 = 0.1063$	each	0.1063	1,220.00	129.69
7333	Prop 2 m (2-3.5 m) Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	830.00	70.55
7334	Assembly nut & bolts etc. Qty taken for cost of using once = $1300 \times 0.85 / 40 = 27.62$	L.S.	27.62	1.49	41.15
9999	Carriage LABOUR: Fitter (grade 1)	L.S.	52.00	1.49	77.48
0116	Beldar	day	1.00	301.00	301.00
0114	Shuttering oil	day	2.00	247.00	494.00
9999	Carriage	L.S.	39.00	1.49	58.11
9999		L.S.	26.00	1.49	38.74
	TOTAL				1,416.42
	Add Water Charges @ 1%				14.16
	TOTAL				1,430.58
	Add CPOH @ 15%				214.59
	Cost of 4.5 sqm				1,645.17
	Cost of 1 sqm				365.59
	Say				365.60

5.9.7 Stairs, (excluding landings) except spiral-staircases

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.79 sqm.</i> <i>Details of staircase, 3.40m clear span including 1 m landing</i> MATERIAL: (i) Cost of plank 38mm (2nd class kail wood) Waist $2.69 \times 1.30 = 3.50$ sqm. Side shuttering of steps and side of waist- Steps = $8 \times 1.30 \times 1.15 = 1.56$ sqm Face of landing $1 \times 1.30 \times 0.15 = 0.20$ sqm. Side of waist $2.69 \times 0.13 = 0.35$ sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	Side of steps- $8 \times 0.50 \times 0.30 \times 0.15 = 0.18 \text{sqm}$. Total = 5.79 sqm. Wastage 5% = 0.29sqm. Total = 6.08 sq. Cubical content- $6.08 \times 0.038 = 0.231 \text{ cum} = 231 \text{ cudm}$ Qty taken for cost using once = $231/8 = 28.875 \text{ cudm}$	10 cudm	28.875	250.00	721.88
1197	Second class kail wood in planks (ii) Batten 100mm x 75mm $4 \times 1.30 \times 0.100 \times 0.075 = 0.039 \text{ cum} = 39 \text{ cudm}$ Qty taken for cost using once = $39/8 = 4.875 \text{ cudm}$	10 cudm	4.875	250.00	121.88
0302	Second class kail wood in scantling $2 \times 4 \times 0.80 = 6.40 \text{m}$ Qty taken for cost using once = $6.4/8 = 0.8 \text{m}$	metre	0.80	37.00	29.60
2204	Safeda ballies 125 mm diameter Planks = 0.231 cum. Battens = 0.039 cum. Ballies $6.4 \times 3.142/4 \times (0.125)^2 = 0.079 \text{cum}$. Total = 0.349 cum. Qty taken for cost using once = $0.349/8 = 0.04363 \text{ cum}$	cum	0.04363	100.11	4.37
0112	Carriage of timber				
0114	LABOUR:				
9999	For assembling, erection, dismantling and cleaning				
0112	Carpenter 2nd class	day	1.75	273.00	477.75
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	16.12	1.49	24.02
	TOTAL				1,626.50
	Add Water Charges @ 1%				16.26
	TOTAL				1,642.76
	Add CPOH @ 15%				246.41
	Cost of 5.79 sqm				1,889.17
	Cost of 1 sqm				326.28
	Say				326.30

5.9.8 Spiral staircases (including landing)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.9.5	Details of cost for 6.28 sqm (For 10 steps) Treads $10 \times 0.70 \times 0.20 (\text{av.}) = 1.40 \text{ sqm}$ Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	1.40	262.25	367.15 (A)
5.9.2	Riser $2 \times 10 \times 0.70 \times 0.23 = 3.22 \text{ sqm}$ Rate as per Item Number 5.9.2 of SH: Reinforced cement concrete work Newal Post (Column) $10 \times 3.14 \times 0.232 = 1.66 \text{ sqm}$	sqm	3.22	285.15	918.18 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.9.7	Rate as per Item Number 5.9.7 of SH: Reinforced cement concrete work	sqm	1.66	326.30	541.66 (A)
	TOTAL				1,826.99
	Cost of 6.28 sqm				1,826.99
	Cost of 1 sqm				290.92
	Say				290.90

5.9.9 Arches, domes, vaults up to 6 m span

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a semicircular arch 3.6m clear span and 3.6m long.</i> <i>Area of centering = $22 \times 1.8 \times 3.6 = 20.37 \text{sqm}$</i> MATERIAL: Frame work in 2nd class kail wood Tie- $1 \times 3.6 \times 0.15 \times 0.20 = 0.108 \text{cum}$. Struts- $3 \times 1.8 \times 0.10 \times 0.10 = 0.054 \text{cum}$ Struts- $2 \times 2.55 \times 0.10 \times 0.10 = 0.051 \text{ cum}$. Ribs- $4 \times 1.38 \times 0.075 \times 0.075 = 0.031 \text{cum}$. Total = 0.244 cum. Quantity for 7 such frames $7 \times 0.244 = 1.708 \text{cum}$. Strips $5 \text{cm} \times 2.5 \text{cm} = 7.5 \text{cm}$ center to center $5.66 / 0.075 \times 0.05 \times 0.025 \times 3.6 = 0.342 \text{cum}$. Total = 2.050 cum = 2050 cudm Qty taken for cost using once = $2050 / 8 = 256.25 \text{ cudm}$ 1197 Second class kail wood in scantling 10 cudm 256.25 250.00 6,406.25 0302 Safeda ballies 125 mm diameter 12.60 37.00 466.20 $7 \times 4 \times 3.6 = 100.8 \text{m}$ Qty taken for cost using once = $100.8 / 8 = 12.6$ 0992 Galvanised steel plain sheets quintal 0.145 4,750.00 688.75 20.37 sqm = 116kg. Or 1.16 quintal Qty taken for cost using once = $1.16 / 8 = 0.145 \text{ qtl}$ CARRIAGE: Kail wood = 2.05cum. Ballies- $100.8 \times (.125)^2 / 4 \times 3.142 = 1.24 \text{cum}$. Total = 3.29 cum.- Qty taken for cost using once = $3.29 / 8 = 0.4112 \text{ cum}$ 2204 Carriage of timber cum 0.4112 100.11 41.17 G.I. Sheet = 0.116 t Qty taken for cost using once = $0.116 / 8 = 0.0145 \text{ t}$ 2302 Carriage of G.I.sheet and accessories tonne 0.0145 77.87 1.13 LABOUR: 0112 Carpenter 2nd class day 16.00 273.00 4,368.00 0114 Beldar day 13.00 247.00 3,211.00 9999 Sundries L.S. 11.70 1.49 17.43				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				15,199.93
	Add Water Charges @ 1%				152.00
	TOTAL				15,351.93
	Add CPOH @ 15%				2,302.79
	Cost of 20.37 sqm				17,654.72
	Cost of 1 sqm				866.70
	Say				866.70

5.9.10 Extra for arches, domes, vaults exceeding 6 m span

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<p><i>Details of cost for 33.31 sqm</i></p> <p>Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m)</p> <p>Radius R = 5m</p> <p>$2R-2=4+4$</p> <p>$\tan^{-1} (4/3) = 53.28^\circ$</p> <p>$2 \times 53.28^\circ = 106^\circ$</p> <p>Surface area</p> <p>$= 2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.31 \text{ sqm.}$</p> <p>Arc=9.25m</p> <p>MATERIAL:</p> <p>Tie-$2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{ cum}$</p> <p>Struts-$2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{ cum.}$</p> <p>Struts-$2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{ cum.}$</p> <p>Ribs-$6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{ cum.}$</p> <p>Struts-$2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{ cum.}$</p> <p>Total=0.476cum.</p> <p>For four such frames $= 0.476 \times 4 = 1.904 \text{ cum.}$</p> <p>laggings-$75 \times 3.6 \times 0.125 \times 0.075 = 2.531 \text{ cum.}$</p> <p>Tie-$2 \times 3.6 \times 0.225 \times 0.038 = 0.062 \text{ cum.}$</p> <p>Brace-$3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110 \text{ cum}$</p> <p>Brace-$3 \times 4 \times 3.8 \times 0.225 \times 0.038 = 0.390 \text{ cum}$</p> <p>Sleepers-$4 \times 3.6 \times 0.20 \times 0.15 = 0.432 \text{ cum}$</p> <p>Sleepers-$2 \times 4 \times 3.6 \times 0.175 \times 0.075 = 0.378$</p> <p>Vertical post-$4 \times 4 \times 3.6 \times 0.15 \times 0.15 = 1.296$</p> <p>Total = 7.103cum. or 7103 cudm</p> <p>Qty taken 1/8th of qty for cost using once</p> <p>$= 7.103/8 = \text{cum} = 887.9 \text{ Cudm}$</p>				
1197	Second class kail wood in scantling	10 cudm	887.90	250.00	22,197.50
2204	Carriage of timber	cum	0.8879	100.11	88.89
	<p>Fittings:</p> <p>3 way straps $50 \text{ mm} \times 10 \text{ mm} = 32 \text{ Nos.}$</p> <p>32 no. @ 0.50cm each = 16m</p> <p>Straps-$50 \text{ mm} \times 10 \text{ mm} = 8 \text{ Nos. @ } 0.25 \text{ cm each}$</p> <p>$= 2 \text{ m} = 18 \text{ m}$</p> <p>18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q</p> <p>Qty taken 1/8th of qty for cost using once =</p> <p>$0.702/8 = 0.08775$</p>				
1225	Mild steel flat strap fitting	quintal	0.0878	3,950.00	346.81
	<p>Bolts 160 Nos. 254 mm long 16mm dia.-</p> <p>$160 \times 254 \times 1.58 = 64.21 \text{ kg} = 0.64 \text{ q.}$</p>				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1034	Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08				
2302	Bolts and nuts up to 300 mm in length	quintal	0.08	5,400.00	432.00
	Carriage of G.I.sheet and accessories	tonne	0.0168	77.87	1.31
	0.1342t				
	Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.01677 cum				
	LABOUR:				
0112	Carpenter 2nd class	day	28.00	273.00	7,644.00
0114	Beldar	day	24.00	247.00	5,928.00
9999	Sundries	L.S.	134.55	1.49	200.48
	Less cost of shuttering etc. for an arch exceeding 6m span i.e. for an average of 8m span				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	866.70	-28,869.78(A)
	TOTAL				7,969.21
	Add Water Charges @ 1% except on A i.e on (7,969.21 - -28,869.78 =) 36,838.99				368.39
	TOTAL				8,337.60
	Add CPOH @ 15% except on A i.e on (8,337.60 - -28,869.78 =) 37,207.38				5,581.11
	Cost of 33.31 sqm				13,918.71
	Cost of 1 sqm				417.85
	Say				417.85

5.9.11 Chimneys and shafts

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 7.9m long and 1.00m high wall</i>				
	<i>Area of contact 2x7.9x1.0 = 15.8 sqm</i>				
	MATERIAL:				
	Adding for maintenance @ 10% of cost				
	Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm	each	0.51	1,050.00	535.50
	2x3x2x2 = 24 Nos. Qty taken for cost of using once = 24x0.85/40 = 0.51				
7327	100 mm channel shoulder 2.5 m long	each	0.17	1,160.00	197.20
	4x2 = 8				
	Qty taken for cost of using once = 8x0.85/40= 0.17				
7328	Double clip (bridge clip)	each	0.51	97.00	49.47
	2x6x2 = 24				
	Qty taken for cost of using once = 24x0.85/40= 0.51				
7329	Single clip	each	0.255	77.00	19.64
	2x3x2 = 12				
	Qty taken for cost of using once = 12x0.85/40= 0.255				
7330	M.S. tube 40 mm dia	metre	0.68	280.00	190.40
	2x2x8m = 32m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Qty taken for cost of using once = 32x0.85/40= 0.68 Nut & Bolts	L.S.	27.63	1.49	41.17
9999	Qty taken for cost of using once =1300x0.85/40= 27.63 Carriage	L.S.	78.00	1.49	116.22
0116	LABOUR: Fitter (grade 1)	day	3.50	301.00	1,053.50
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries	L.S.	52.00	1.49	77.48
	TOTAL				3,878.80
	Add Water Charges @ 1%				38.79
	TOTAL				3,917.59
	Add CPOH @ 15%				587.64
	Cost of 15.8 sqm				4,505.23
	Cost of 1 sqm				285.14
	Say				285.15

5.9.12 Well steining

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for 26.39 sqm.</i> Surface area Outside area =22/7x4.40x1.00 - 13.82sqm = 26.39 sqm MATERIAL: Assuming that the timber will become unserviceable after being used 8 times Planks 38 mm (Second class kail wood) 26.39x0.038= 1.00cum. Wastage 20% = 0.20cum. Total = 1.20cum. or 1200 cudm. Qty for cost using once = 1200/8=150 cudm Second class kail wood in planks 2nd class kail wood battens Inside = 2x25x0.50x0.075x0.038 = 0.0712cum. Outside = 2x28x0.50x0.075x0.038 = 0.0798cum Total = 0.1510cum. Wastage 5% = 0.0076 cum = 0.1586cum. or 158.60 cudm Qty for cost using once = 0.1586/8= 0.0198 cudm	10 cudm	150.00	250.00	3,750.00(P)
1197	Second class kail wood in scantling	10 cudm	0.0198	250.00	0.50(Q)
0302	Safeda ballies 125 mm diameter Inside: 25x1.00 = 25.00m Outside: 28x1.00 = 28.00m Total = 53.00m Qty for cost using once = 53/8 =6.625 m Add for carriage, labour for erection and dismantling etc. @ 1/6th of the cost of material	metre	6.625	37.00	245.12(R)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	(P + Q + R) / 6 = (3750.00 + 0.50 + 245.12 / 6				665.94)
	TOTAL				4,661.56
	Add Water Charges @ 1%				46.62
	TOTAL				4,708.18
	Add CPOH @ 15%				706.23
	Cost of 26.39 sqm				5,414.41
	Cost of 1 sqm				205.17
	Say				205.15

5.9.13 Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for fins 4 vertical fins 4 metre high and at 1 metre centres, with two horizontal fins all projecting 60cm from face of wall and 5 cm thicki.</i> <i>e.4x4x1.215+2x3x0.65=23.90 sqm</i> MATERIAL: Second class kail wood in planks 38mm thick- 4x4x1.25=20.00 2x3x0.65 =3.90 Total = 23.90 Wastage @ 5% = 1.20 Total = 25.10sqm. 25.10x0.038=.954 cum or 954 cudm Qty for cost using once = 954/8 = 119.25 cudm	10 cudm	119.25	250.00	2,981.25
1197	Second class kail wood in scantling 4x2x5x0.60x0.075x0.050=0.090 3x2x5x1.00x0.075x0.050=0.112 2x6x0.60x0.075x0.100=0.054 = 0.256 Cum. Wastage@ 5% =0.013 cum = 0.269 cum= 269 cudm Qty for cost using once = 269/8 = 33.625 cudm	10 cudm	33.625	250.00	840.62
0302	Safeda ballies 125 mm diameter 2x2x6x4.00 =96m Wastage @5% = 4.8m Total= 100.8 m Qty for cost using once = 100.8/8 = 12.6 m	metre	12.60	37.00	466.20
2204	Carriage of timber Planks = 0.954 Battens = 0.269 Bailies 100.8x(.125) ² /4x3.142=1.238cum. Total = 2.461 cum Qty for cost using once = 2.461/8 = 0.3076 cum LABOUR: For assembling, erection, dismantling and cleaning	cum	0.3076	100.11	30.79

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	11.00	273.00	3,003.00
0114	Beldar	day	11.00	247.00	2,717.00
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				10,159.15
	Add Water Charges @ 1%				101.59
	TOTAL				10,260.74
	Add CPOH @ 15%				1,539.11
	Cost of 25.1 sqm				11,799.85
	Cost of 1 sqm				470.11
	Say				470.10

5.9.14 Extra for shuttering in circular work (20% of respective centering and shuttering items)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Extra for shuttering in circular work 20% of respective centring and shuttering 1 * 20 = 1 * 20 20.00				
	Cost of 1 sqm				20.00
	Say				20.00

5.9.15 Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for footing size 2.7mx2.7mx1.00m</i> <i>Contact area = 10.8 sqm</i> MATERIAL: Assuming shuttering material will become unserviceable after use of 40 times Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost				
7319	Wall form panel 1250x500 mm Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	1,050.00	357.00
7326	Corner angle 45x45x5 mm 1.50 m long Qty taken for cost of using once = $4 \times 0.85 / 40 = 0.085$	each	0.085	300.00	25.50
7327	100 mm channel shoulder 2.5 m long Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	1,160.00	197.20
7328	Double clip (bridge clip) Qty taken for cost of using once = $16 \times 0.85 / 40 = 0.34$	each	0.34	97.00	32.98
7329	Single clip Qty taken for cost of using once = $8 \times 0.85 / 40 = 0.17$	each	0.17	77.00	13.09
7330	M.S. tube 40 mm dia 4x2.7m = 10.8m Qty taken for cost of using once = $10.8 \times 0.85 / 40 = 0.2295$	metre	0.2295	280.00	64.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Assembly nut & bolts etc. Qty taken for cost of using once =1040x0.85/40 = 22.10	L.S.	22.10	1.49	32.93
9999	Carriage LABOUR:	L.S.	78.00	1.49	116.22
0116	Fitter (grade 1)	day	0.75	301.00	225.75
0114	Beldar	day	1.50	247.00	370.50
9999	Shuttering oil	L.S.	52.00	1.49	77.48
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				1,551.65
	Add Water Charges @ 1%				15.52
	TOTAL				1,567.17
	Add CPOH @ 15%				235.08
	Cost of 10.8 sqm				1,802.25
	Cost of 1 sqm				166.88
	Say				166.90

5.9.16 Edges of slabs and breaks in floors and walls

5.9.16.1 Under 20 cm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a 3mx3m slab 15cms thick 12m edge Length</i>				
	MATERIAL:				
	Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks (i) Planks 30mm thick (2nd class Kail wood or equivalent local soft wood) 4x3x0.15x0.030=0.054cum Wastage @5% = 0.003 cum. Total = 0.057 cum 57 cudm Qty taken for cost of using once = 57/8 =7.125 cudm	10 cudm	7.125	250.00	178.12
1197	Second class kail wood in scantling (ii) Battens 75mmx100mm (2nd class Kail wood) Horizontal 2x4x0.075x0.1x0.5=0.030 Horizontal 2x4x0.075x0.1 x 1.5=0.090 (iii) Vertical battens 16x0.15x0.075x0.030M=0.0054 (iv) Struts 16x0.25x0.075x0.075=0.0225 Total = 0.1479 Wastage @5% =0.0074 Total = 0.1553 cum= 155 cudm Qty taken for cost ef using once = 155/8 =19.375 cudm	10 cudm	19.375	250.00	484.38
2204	Carriage of timber Planks = 0.057 cum. Battens = 0.155 cum. Total = 0.212 cum. Qty taken for cost of using once = 0.212/8 = 0.0265 cum	cum	0.0265	100.11	2.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR: For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	0.81	273.00	221.13
0114	Beldar	day	0.54	247.00	133.38
9999	Sundries	L.S.	5.20	1.49	7.75
	TOTAL				1,027.41
	Add Water Charges @ 1%				10.27
	TOTAL				1,037.68
	Add CPOH @ 15%				155.65
	Cost of 12 metre				1,193.33
	Cost of 1 metre				99.44
	Say				99.45

5.9.16.2 Above 20 cm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4mx4xslab 25cms thick 16 metre edge length</i> <i>Shuttering surface area = 16 x 0.25 = 4 sqm</i>				
	MATERIAL:				
1198	Second class kail wood in planks 38mm thick $4 \times 4 \times 0.25 \times 0.038 = 0.152$ Wastage @ 5% = 0.008 Total = 0.160 cum. = 160 cudm Qty taken for cost of using once = $160/8 = 20$ cudm	10 cudm	20.00	250.00	500.00
1197	Second class kail wood in scantling (ii) Battens $6 \times 2 \times 0.60 \times 0.075 \times 0.100 = 0.054$ $5 \times 2 \times 1.5 \times 0.075 \times 0.100 = 0.113$ Total = 0.167 Wastage @ 5% = 0.008 Total = 0.175 cum. = 175 cudm Qty taken for cost of using once = $175/8 = 21.88$ cudm	10 cudm	21.88	250.00	547.00
2204	Carriage of timber Planks = 0.16 cum. Battens = 0.175 cum. Total = 0.335 cum. Qty taken for cost of using once = $0.335/8 = 0.0419$ cum	cum	0.0419	100.11	4.19
	LABOUR: For assembling erection dismantling & cleaning				
0112	Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	0.75	247.00	185.25
9999	Sundries	L.S.	6.50	1.49	9.68
	TOTAL				1,519.12
	Add Water Charges @ 1%				15.19
	TOTAL				1,534.31
	Add CPOH @ 15%				230.15
	Cost of 4 sqm				1,764.46
	Cost of 1 sqm				441.12
	Say				441.10

5.9.17 Cornices and mouldings

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<i>Details of cost for 10m long moulding 10cm projection, 20cm depth and 40cm girth</i> <i>Area in contact 10x0.40 = 4.00 sqm</i> MATERIAL: Assuming that the timber will become unserviceable after being used 8 times Second class kail wood in planks (i) Planking 30mm thick = 4sqm. Extra & Wastage 20% = 0.8 sqm. Total = 4.8 sqm. $4.8 \times 0.038 = 0.182 \text{ cum}$ Qty taken for cost using once = $182/8 = 22.75 \text{ cudm}$	10 cudm	22.75	250.00	568.75
1197	Second class kail wood in scantling (ii) Battens-Joining to Planking $1 \times 10 \times 0.1 \times 0.075 = 0.075 \text{ cum}$. From bottom shuttering $10 \times 1.5 \times 0.1 \times 0.075 = 0.113 \text{ cum}$. Walls $10 \times 0.4 \times 0.1 \times 0.075 = 0.030 \text{ cum}$. Total = 0.218 cum = 218 cudm Qty taken for cost using once = $218/8 = 27.25 \text{ cudm}$	10 cudm	27.25	250.00	681.25
2447	Hollock ballies 125 mm diameter (iii) Bailies 125 mm dia. Slant $10 \times 0.3 = 3.00 \text{ m}$ Verticals $6 \times 3.5 = 21.00 \text{ m}$ Total = 24.00 m Wastage @ 5% = 1.20 m Total = 25.20 m Qty taken for cost using once = $25.2/8 = 3.15 \text{ m}$	metre	3.15	35.00	110.25
2204	Carriage of timber Planking = 0.188 cum. Battens & Wales = 0.218 cum. Bailies $25.2 \times 22/7 \times (0.125)^2/4 = 0.310 \text{ cum}$. Total = 0.710 cum. Qty taken for cost using once = $0.71/8 = 0.0888 \text{ cum}$	cum	0.0888	100.11	8.89
0112	LABOUR: Labour for assembling, erection, dismantling & cleaning Carpenter 2nd class	day	0.63	273.00	171.99
0114	Beldar	day	0.63	247.00	155.61
9999	Sundries	L.S.	6.50	1.49	9.68
	TOTAL				1,706.42
	Add Water Charges @ 1%				17.06
	TOTAL				1,723.48
	Add CPOH @ 15%				258.52
	Cost of 4 sqm				1,982.00
	Cost of 1 sqm				495.50
	Say				495.50

5.9.18 Small surfaces such as cantilever ends, brackets and ends of steps, caps and bases to pilasters and columns and the like

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1198	<p><i>Details of cost for a bracket 1.20m projected</i> <i>Front area 0.50x0.60m</i> <i>End area 0.50x0.75m</i> <i>Area in contact with concrete</i> $2 \times \{(0.60+0.75)/2 \times 1.2\} = 1.62 \text{ sqm}$ <i>Front 0.5x0.6 = 0.30 sqm.</i> <i>Bottom 0.5x1.21 = 0.605 sqm.</i> <i>Total = 2.525 sqm</i> MATERIAL: Assuming that the timber will become unserviceable after being used 8 times Second class kail wood in planks or equivalent local soft wood (i) Plank 30mm thick. Sides $2 \times \{(0.60+0.75)/2 \times 1.238\} = 1.6713 \text{ sqm}$ Battens $0.576 \times 1.21 = 0.697$ Front $0.5 \times 0.638 = 0.319$ Total = 2.687 sqm. Cubical contents $2.687 \times 0.038 = 0.102 \text{ cum.}$ Wastage @ 5% = 0.005 cum. Total = 0.107 cum. Qty taken for cost using once = $107/8 = 13.375 \text{ cudm}$</p>	10 cudm	13.375	250.00	334.38
1197	<p>Second class kail wood in scantling (ii) Battens-0.05x0.05 $2 \times 1.238 = 2.476 \text{m}$ $2 \times 1.21 = 2.42 \text{m}$ $2 \times 0.688 = 1.376 \text{m}$ $2 \times 0.838 = 1.676 \text{m}$ $3 \times 0.5 = 1.50 \text{m}$ Total = 9.448m Cubical contents $9.448 \times 0.05 \times 0.05 = 0.024 \text{ cum}$ Wastage 5% = 0.0012 cum. Total = 0.0252 cum = 25.2 cudm Qty taken for cost using once = $25.2/8 = 3.15 \text{ cudm}$</p>	10 cudm	3.15	250.00	78.75
2447	<p>Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. $1 \times 2.5 = 2.50 \text{m}$ $1 \times 2.65 = 2.65 \text{m}$ Total = 5.15 m Wastage 5% = 0.26m Total = 5.41 m Qty taken for cost using once = $5.41/8 = 0.6763 \text{ m}$</p>	metre	0.6763	35.00	23.67
2204	<p>Carriage of timber Planks = 0.107 cum. Battens = 0.0252 cum Baillies $5.41 \times 22/7 \times (0.125)^2/4 = 0.066 \text{ cum}$ Total = 0.198 cum</p>	cum	0.0248	100.11	2.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Qty taken for cost using once = $0.198/8 = 0.0248$ cudm				
	LABOUR:				
	Labour for assembling, erection, dismantling & cleaning				
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	0.80	247.00	197.60
9999	Sundries	L.S.	7.15	1.49	10.65
	TOTAL				865.93
	Add Water Charges @ 1%				8.66
	TOTAL				874.59
	Add CPOH @ 15%				131.19
	Cost of 2.525 sqm				1,005.78
	Cost of 1 sqm				398.33
	Say				398.35

5.9.19 Weather shade, Chajjas, corbels etc., including edges

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a weather shade</i>				
	Area of centring and shuttering = 0.954 sqm				
	For a weather shade over a window of size $1.5\text{m} \times 1.2\text{m}$				
	Size of weather shade $1.80 \times 0.45\text{m}$				
	Thickness at front = 0.05m				
	Thickness at fixed edge = 0.07m				
	Area in contact with concrete Bottom				
	$1 \times 0.45 \times 1.80 = 0.810$				
	$1 \times 0.05 \times 1.80 = 0.094$				
	$2 \times 0.45 \times 0.06 = 0.027$				
	Total = 0.954 sqm				
	MATERIAL:				
	Assuming that the timber will become unserviceable after being used 8 times				
1198	Second class kail wood in planks	10 cudm	5.125	250.00	128.12
	(i) Planking 38mm thick.				
	Bottom $1 \times 1.876 \times 0.488 = 0.915$ sqm.				
	$1 \times 1.876 \times 0.05 = 0.94$ sqm.				
	$2 \times 0.45 \times 0.06 = 0.027$ sqm.				
	Total = 1.036 sqm.				
	Add 5% wastage = 0.052 sqm.				
	Total = 1.088 sqm.				
	Cubic contents $1.088 \times 0.038 = 0.041$ cum = 41 cudm				
	Qty taken for cost using once = $41/8 = 5.125$ cudm				
1197	Second class kail wood in scantling	10 cudm	1.50	250.00	37.50
	(ii) Battens-				
	$2 \times 0.60 \times 0.075 \times 0.10 = 0.009$				
	Ends with bearing center				
	$1 \times 0.45 \times 0.075 \times 0.10 = 0.003$				
	Total = 0.012 cum = 12 cudm				
	Qty taken for cost using once = $12/8 = 1.50$ cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2447	Hollock ballies 125 mm diameter (iii) Bailies 125mm dia. 2x2.1 =4.2m Wastage 5% = 0.21m Total = 4.41 m Qty taken for cost using once = 4.41/8 = 0.5513 m	metre	0.5513	35.00	19.30
2204	Carriage of timber Plank = 0.041 cum. Battens = 0.012 cum. Bailies $4.41 \times 22/7 \times (0.125)^2/4 = 0.054$ cum. Total = 0.107 cum Qty taken for cost using once = 0.107/8 = 0.01338 cum LABOUR: Labour for assembling, erection, dismantling & cleaning	cum	0.01338	100.11	1.34
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	5.20	1.49	7.75
	TOTAL				337.66
	Add Water Charges @ 1%				3.38
	TOTAL				341.04
	Add CPOH @ 15%				51.16
	Cost of 0.954 sqm				392.20
	Cost of 1 sqm				411.11
	Say				411.10

5.9.20 Suspended floors, roofs, landings, balconies and access platform with water proof ply 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.1	<i>Details of cost for a room 4.50x3 = 13.50 sqm, height 3.5 m</i> MATERIAL: Adding for maintenance @ 10% of cost Taking salvage value after full use of material @ 25% of cost Rate as per Item Number 10.1 of SH: Steel work 1. Plates (size 0.75x0.60) Angle 40x40x5mm 2x0.75= 1.50 m 2x0.60= 1.20 m = 2.70m@3.00kg/m = 8.1 kg Weight of one plate =8.1kg Add for wastage @ 5% = 0.41 kg Total = 8.51 kg Total weight of all plates = 5x6x8.51 = 255.30 kg Qty taken for cost using once.= 255.30x0.85/40 = 5.425 kg Welding length = (30x32)/40=24 cm	kg	5.425	59.90	324.96(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1215	Welding by electric plant	cm	24.00	1.50	36.00
8659	Water proof ply 12 mm thick 1x4.50x3.00=13.50sqm Add wastage 5% =0.68sqm Total 14.18sqm Qty taken for cost using once 14.18/8 = 1.77sqm	sqm	1.77	645.00	1,141.65
0112	Carpenter 2nd class	day	0.125	273.00	34.12
0114	Beldar	day	0.125	247.00	30.88
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5,400.00	11.34
7342	Adjustable span ESO+SI (2.35-3.40) Qty taken for cost using once = 5x0.85/40 = 0.10625 Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for cost using once = 6x0.85/40 = 0.1275	each	0.1063	1,825.00	194.00
		each	0.1275	1,150.00	146.62
9999	Assembly nut & bolts etc.	L.S.	12.63	1.49	18.82
9999	Carriage	L.S.	130.00	1.49	193.70
	LABOUR:				
0116	Fitter (grade 1)	day	3.00	301.00	903.00
0114	Beldar	day	6.00	247.00	1,482.00
9999	Shuttering oil	L.S.	78.00	1.49	116.22
9999	Sundries	L.S.	52.00	1.49	77.48
	TOTAL				4,710.79
	Add Water Charges @ 1% except on A i.e on (4,710.79 - 324.96 =) 4,385.83				43.86
	TOTAL				4,754.65
	Add CPOH @ 15% except on A i.e on (4,754.65 - 324.96 =) 4,429.69				664.45
	Cost of 13.5 sqm				5,419.10
	Cost of 1 sqm				401.41
	Say				401.40

5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
10.1	<i>Details of cost for a beam of 6 m clear span, 0.50 m deep 0.30 m wide and height 3.5 m from floor Cubical contents</i> $6.60 \times 0.5 \times 0.3 = 0.99 \text{ cum}$ $1 \times 1.30 \times 6.00 = 7.80 \text{ sqm}$ MATERIAL: Assuming shuttering will become unserviceable after use of 8 times Add maintenance charges @ 10% of cost of material Less salvage value of material after full use @ 25% of cost of material Rate as per Item Number 10.1 of SH: Steel work Steel plates for side and bottom (plate size 1.20 x 0.50m)	kg	3.92	59.90	234.81 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Angle 40x40x5mm 2x1.20 = 2.40 m 3x0.50= 1.50 m 3.90 m @ 3.00 kg/m = 11.70 kg Weight of one plate = 11.70 kg. Add for wastage = 0.585kg. Total =12.285 kg. Total weight of all plates 3x5x12.285 = 184.275 kg Qty taken for cost of using once = 184.275*x0.85/40 =3.92 kg Welding length 480/40= 12 cm				
1215	Welding by electric plant	cm	12.00	1.50	18.00
8659	Water proof ply 12 mm thick Welding length = (30x32)/40=24 cm 1x1.30x6.00 = 7.80 sqm Add 5% wastage = 0.39 sqm Total = 8.19 sqm Qty taken for cost of using once 8.19/8 sqm= 1.02 sqm	sqm	1.02	645.00	657.90
0112	Carpenter 2nd class	day	0.125	273.00	34.12
0114	Beldar	day	0.125	247.00	30.88
1034	Bolts and nuts up to 300 mm in length	quintal	0.0021	5,400.00	11.34
7343	Adjustable telescopic prop 3 m (2.02-3.75m) Qty taken for cost of using once = 6 x 0.85/40 =0.1275 m	each	0.1275	1,150.00	146.62
7344	Beam clamp 300-380 mm (450-1070 mm) Qty taken for cost of using once = 5x0.85/40 = 0.1063m	each set	0.1063	422.00	44.86
9999	Assembly nut & bolts etc.	L.S.	11.05	1.49	16.46
9999	Carriage	L.S.	78.00	1.49	116.22
	LABOUR:				
0116	Fitter (grade 1)	day	1.25	301.00	376.25
0114	Beldar	day	2.50	247.00	617.50
9999	Shuttering oil	L.S.	39.00	1.49	58.11
9999	Sundries, paper tape etc	L.S.	26.00	1.49	38.74
	TOTAL				2,401.81
	Add Water Charges @ 1% except on A i.e on (2,401.81 - 234.81 =) 2,167.00				21.67
	TOTAL				2,423.48
	Add CPOH @ 15% except on A i.e on (2,423.48 - 234.81 =) 2,188.67				328.30
	Cost of 7.8 sqm				2,751.78
	Cost of 1 sqm				352.79
	Say				352.80

5.10 : Providing and fixing tie bolt, spring coil and plastic cone in wall shuttering complete as per the direction of Engineer-in-Charge.

5.10.1 2 mm dia & 100 mm length

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for wall length 7.90m x 1m (24 sets) MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7320	Tie bolt 12 mm dia 100 mm length	each	24.00	38.00	912.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.49	19.37
9999	LABOUR:				
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				2,602.11
	Add Water Charges @ 1%				26.02
	TOTAL				2,628.13
	Add CPOH @ 15%				394.22
	Cost of 24 sets				3,022.35
	Cost of each set				125.93
	Say				125.95

5.10.2 12 mm dia & 150 mm length

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7321	Tie bolt 12 mm dia 150 mm length	each	24.00	50.00	1,200.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.49	19.37
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				2,890.11
	Add Water Charges @ 1%				28.90
	TOTAL				2,919.01
	Add CPOH @ 15%				437.85
	Cost of 24 sets				3,356.86
	Cost of each set				139.87
	Say				139.85

5.10.3 20 mm dia & 150 mm length

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7322	Tie bolt 20 mm dia 150 mm length	each	24.00	62.00	1,488.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.49	19.37
9999	LABOUR:				
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				3,178.11
	Add Water Charges @ 1%				31.78
	TOTAL				3,209.89
	Add CPOH @ 15%				481.48
	Cost of 24 sets				3,691.37
	Cost of each set				153.81
	Say				153.80

5.10.4 20 mm dia & 225 mm length

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for wall length 7.90m x 1 m (24 sets)</i>				
	MATERIAL:				
7323	Tie bolt 20 mm dia 225 mm length	each	24.00	80.00	1,920.00
7324	Spring coil 12 mm	each	48.00	16.00	768.00
7325	Plastic cone 12 mm dia	each	48.00	18.00	864.00
9999	Carriage	L.S.	13.00	1.49	19.37
	LABOUR:				
9999	Sundries	L.S.	26.00	1.49	38.74
	TOTAL				3,610.11
	Add Water Charges @ 1%				36.10
	TOTAL				3,646.21
	Add CPOH @ 15%				546.93
	Cost of 24 sets				4,193.14
	Cost of each set				174.71
	Say				174.70

5.11 : Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).

5.11.1 Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a room of size 6m x 4.8m = 28.8 sqm</i>				
	MATERIAL:				
	Assuming that shuttering material will become unserviceable after use 40 times				
	Less salvage value of material after full use @ 25% of cost material				
	Add 10% of cost of material for maintenance				
7345	Prop 4 m	each	0.4463	1,170.00	522.17
	Qty taken for cost using once = $21 \times 0.85 / 40 = 0.4463$				
7343	Deduct the rate of 3m prop				
	Adjustable telescopic prop 3 m (2.02-3.75m)	each	-0.4463	1,150.00	-513.24
	Qty taken for cost using once = $21 \times 0.85 / 40 = 0.4463$				
	Difference of rate between 4m prop and 3m prop				
7330	M.S. tube 40 mm dia	metre	1.0965	280.00	307.02
	Bracing				
	MS tube 40mm				
	7x4.8m = 33.60m				
	3x6.0m = 18.00m				
	Total = 51.60m				
	Qty taken for cost using once = $51.6 \times 0.85 / 40 = 1.0965$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7346	Double coupler (40x40) Qty taken for cost using once = $21 \times 0.85/40$ = 0.4463	each	0.4463	55.00	24.55
9999	Carriage	L.S.	65.00	1.49	96.85
0116	LABOUR: Fitter (grade 1)	day	3.00	301.00	903.00
0114	Beldar	day	6.00	247.00	1,482.00
9999	Sundries	L.S.	130.00	1.49	193.70
	TOTAL				3,016.05
	Add Water Charges @ 1%				30.16
	TOTAL				3,046.21
	Add CPOH @ 15%				456.93
	Cost of 28.8 sqm				3,503.14
	Cost of 1 sqm				121.64
	Say				121.65

5.12 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.5.2	<i>Details of cost for 1 cum</i> MATERIAL: Cement concrete 1:2:4 in string or lacing course etc Rate as per Item Number 4.5.2 of SH: Concrete work (NB : Rate has been taken including cost of fixing in CM 1:2 as precast members are to be fixed in CM 1:2)(1 cement: 2 coarse sand) as per CPWD specifications LABOUR: Extra labour for laying CC in RCC work	cum	1.00	5,134.30	5,134.30(A)
0114	Beldar	day	0.10	247.00	24.70
0101	Bhisti	day	0.20	260.00	52.00
0123	Mason (brick layer) 1 st class	day	0.04	301.00	12.04
0124	Mason (brick layer) 2nd class	day	0.04	273.00	10.92
0128	Mate	day	0.04	260.00	10.40
	TOTAL				5,244.36
	Add Water Charges @ 1% except on A i.e on (5,244.36 - 5,134.30 =) 110.06				1.10
	TOTAL				5,245.46
	Add CPOH @ 15% except on A i.e on (5,245.46 - 5,134.30 =) 111.16				16.67
	Cost of 1 cum				5,262.13
	Say				5,262.15

5.13 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5 m clear span up to floor five level, including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a lintel</i> <i>Qty = 0.054 cum</i> MATERIAL: 1.5m clear span = $1.8 \times 0.20 \times 0.15 = 0.054$ cum. Cement Concrete 1:2:4 Rate as per Item Number 4.2.3 of SH: Concrete work	cum	0.054	5,272.40	284.71(A)
4.3.1	Centring and shuttering Rate as per Item Number 4.3.1 of SH: Concrete work	sqm	0.60	166.90	100.14(A)
	LABOUR:				
0114	Beldar	day	0.005	247.00	1.24
0101	Bhisti	day	0.01	260.00	2.60
0123	Mason (brick layer) 1 st class	day	0.002	301.00	0.60
0124	Mason (brick layer) 2nd class	day	0.002	273.00	0.55
0128	Mate	day	0.002	260.00	0.52
	TOTAL				390.36
	Add Water Charges @ 1% except on A i.e on (390.36 - 384.85 =) 5.51				0.06
	TOTAL				390.42
	Add CPOH @ 15% except on A i.e on (390.42 - 384.85 =) 5.57				0.84
	Cost of 0.054 cum				391.26
	Cost of 1 cum				7,245.56
	Say				7,245.55

5.14 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc. including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one $1 \times 0.20 \times 0.15 = 0.03$ cum</i> MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work	cum	0.03	4,514.05	135.42(A)
	Extra labour for lifting $0.45 \times 0.03 \times 2.5 = 0.034$				
0115	Coolie	day	0.034	247.00	8.40
9999	Mortar and labour for hoisting and for fixing Centring and shuttering	L.S.	2.73	1.49	4.07
4.3.1	Rate as per Item Number 4.3.1 of SH: Concrete work 53.82×0.03	sqm	0.36	166.90	60.08(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Add for extra labour for hoisting LABOUR:	L.S.	1.61	1.49	2.40
0123	Add Extra labour for moulding Mason (brick layer) 1 st class 0.58x0.03	day	0.0174	301.00	5.24
0124	Mason (brick layer) 2nd class 0.58x0.03	day	0.0174	273.00	4.75
0115	Coolie 1.5x0.03	day	0.045	247.00	11.12
0101	Bhisti 0.06x0.03	day	0.0018	260.00	0.47
0114	Extra labour for laying CC in RCC Beldar 0.1x0.03	day	0.003	247.00	0.74
0101	Bhisti 0.2x0.03	day	0.006	260.00	1.56
0123	Mason (brick layer) 1 st class 0.04x0.03	day	0.0012	301.00	0.36
0124	Mason (brick layer) 2nd class 0.04x0.03	day	0.0012	273.00	0.33
0128	Mate 0.04x0.03	day	0.0012	260.00	0.31
	TOTAL				235.25
	Add Water Charges @ 1% except on A i.e on (235.25 - 195.50 =) 39.75				0.40
	TOTAL				235.65
	Add CPOH @ 15% except on A i.e on (235.65 - 195.50 =) 40.15				6.02
	Cost of 0.03 cum				241.67
	Cost of 1 cum				8,055.67
	Say				8,055.65

5.15 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in lintels, beams and bressumers including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering and shuttering but excluding the cost of reinforcement with, 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 6.60m long 0.50m deep and 0.30m wide = 6.60x0.50x0.30 = 0.99 cum</i>				
4.1.3	MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH:	cum	0.99	4,514.05	4,468.91(A)
4.3.1	Concrete work Centring and shuttering Rate as per Item Number 4.3.1 of SH:	sqm	6.90	166.90	1,151.61 (A)
0115	Concrete work Extra labour for lifting material upto floor V level Coolie	day	1.11	247.00	274.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0114	Extra labour for laying cement concrete in RCC work				
	Beldar	day	0.099	247.00	24.45
0101	0.10x0.99				
	Bhisti	day	0.198	260.00	51.48
	0.20x0.99				
0123	Mason (brick layer) 1 st class	day	0.0396	301.00	11.92
	0.04x0.99				
0124	Mason (brick layer) 2nd class	day	0.0396	273.00	10.81
	0.04x0.99				
0128	Mate	day	0.0396	260.00	10.30
	0.04x0.99				
9999	Cement mortar 1:3 for fixing	L.S.	89.70	1.49	133.65
9999	Labour for hoisting, Transporting and setting in position	L.S.	269.10	1.49	400.96
	TOTAL				6,538.26
	Add Water Charges @ 1% except on A i.e on (6,538.26 - 5,620.52 =) 917.74				9.18
	TOTAL				6,547.44
	Add CPOH @ 15% except on A i.e on (6,547.44 - 5,620.52 =) 926.92				139.04
	Cost of 0.99 cum				6,686.48
	Cost of 1 cum				6,754.02
	Say				6,754.00

5.16 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in shelves including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shelf 0.90x0.45x0.04m thick = 0.90x0.45x0.04m = 0.0162 cum</i>				
4.1.3	Cement concrete 1:2:4				
	Rate as per Item Number 4.1.3 of SH:				
	Concrete work	cum	0.0162	4,514.05	73.13 (A)
	Finishing				
13.18	Rate as per Item Number 13.18 of SH:				
	Finishing	sqm	0.85	31.10	26.44 (A)
	Centring and shuttering:				
	$2 \times (0.90 + 0.45) \times 0.04 = 0.108$ sqm				
4.3.1	Rate as per Item Number 4.3.1 of SH:				
	Concrete work	sqm	0.108	166.90	18.03 (A)
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.018	247.00	4.45
	LABOUR:				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	Beldar	day	0.016	247.00	3.95
0101	Bhisti	day	0.0032	260.00	0.83

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0123	Mason (brick layer) 1 st class	day	0.0006	301.00	0.18
0124	Mason (brick layer) 2nd class	day	0.0006	273.00	0.16
0128	Mate	day	0.0006	260.00	0.16
9999	Cement mortar 1:3 for fixing	L.S.	4.42	1.49	6.59
9999	Labour for hoisting, Transporting and setting	L.S.	13.52	1.49	20.14
	TOTAL				154.06
	Add Water Charges @ 1% except on A i.e on (154.06 - 117.60 =) 36.46				0.36
	TOTAL				154.42
	Add CPOH @ 15% except on A i.e on (154.42 - 117.60 =) 36.82				5.52
	Cost of 0.0162 cum				159.94
	Cost of 1 cum				9,872.84
	Say				9,872.85

5.17 : Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in vertical & horizontal fins individually or forming box louvers setting in cement mortar 1:2 (1 cement : 2 coarse sand), including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 RCC vertical fins 4m high at 1m centre to centre with two horizontal fins, all projecting 60cm from face of wall and 5cm thick cubical contents = 0.66 cum</i>				
	MATERIAL:				
	Cement concrete 1:2:4				
4.1.3	Rate as per Item Number 4.1.3 of SH:	cum	0.66	4,514.05	2,979.27(A)
	Concrete work				
	Centering and shuttering				
4.3.1	Rate as per Item Number 4.3.1 of SH:	sqm	2.56	166.90	427.26(A)
	Concrete work				
	Extra labour for lifting material upto floor V level				
0115	Coolie	day	0.75	247.00	185.25
	LABOUR:				
	Extra labour for laying cement concrete in RCC work due to delay etc.				
0114	Beldar	day	0.066	247.00	16.30
0101	Bhisti	day	0.132	260.00	34.32
0123	Mason (brick layer) 1 st class	day	0.0264	301.00	7.95
0124	Mason (brick layer) 2nd class	day	0.0264	273.00	7.21
0128	Mate	day	0.0264	260.00	6.86
9999	Cement mortar 1:2 for fixing	L.S.	17.94	1.49	26.73
9999	Labour for hoisting, Transporting and setting	L.S.	71.76	1.49	106.92
9999	Sundries	L.S.	17.94	1.49	26.73
	TOTAL				3,824.80
	Add Water Charges @ 1% except on A i.e on (3,824.80 - 3,406.53 =) 418.27				4.18
	TOTAL				3,828.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (3,828.98 - 3,406.53 =) 422.45				63.37
	Cost of 0.66 cum				3,892.35
	Cost of 1 cum				5,897.50
	Say				5,897.50

5.18 : Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement : 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.

5.18.1 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.00mx0.75m = 1.50 sqm of jali</i>				
0768	Cement Concrete Jali 50 mm thick	sqm	1.50	210.00	315.00
9999	Mortar for fixing	L.S.	6.24	1.49	9.30
9999	Carriage and sundries	L.S.	6.20	1.49	9.24
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.30	301.00	90.30
0124	Mason (brick layer) 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.08	247.00	266.76
	TOTAL				772.50
	Add Water Charges @ 1%				7.72
	TOTAL				780.22
	Add CPOH @ 15%				117.03
	Cost of 1.5 sqm				897.25
	Cost of 1 sqm				598.17
	Say				598.15

5.18.2 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.2mx0.60m = 0.75 sqm of jali</i>				
0769	Cement Concrete Jali 40 mm thick	sqm	0.75	180.00	135.00
9999	Mortar for fixing	L.S.	3.64	1.49	5.42
9999	Carriage and sundries	L.S.	3.64	1.49	5.42
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76
0114	Beldar	day	0.50	247.00	123.50
	TOTAL				338.22
	Add Water Charges @ 1%				3.38
	TOTAL				341.60
	Add CPOH @ 15%				51.24
	Cost of 0.75 sqm				392.84
	Cost of 1 sqm				523.79
	Say				523.80

5.18.3 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.75mx0.5m = 0.375 sqm of jali</i>				
0770	Cement Concrete Jali 25 mm thick	sqm	0.375	145.00	54.38
9999	Mortar for fixing	L.S.	1.82	1.49	2.71
9999	Carriage and sundries	L.S.	1.82	1.49	2.71
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	0.25	247.00	61.75
	TOTAL				155.99
	Add Water Charges @ 1%				1.56
	TOTAL				157.55
	Add CPOH @ 15%				23.63
	Cost of 0.375 sqm				181.18
	Cost of 1 sqm				483.15
	Say				483.15

5.19 : Encasing rolled steel sections, in beams and columns, with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering complete but excluding cost of reinforcement.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.424 cum.</i>				
	Consider 2 R.S. Joists (150mmx80mm) 4.88m long placed 30cm apart centre to centre				
	Overall dimensions of the beam 43cmx20cm				
	MATERIAL:				
	Concrete work :				
	4.93x0.43x0.20 = 0.424 cum				
	For 1:2:4 Cement Concrete (1 cement: 2 coarse sand : 4 stone aggregate 20mm nominal size)				
4.1.3	Rate as per Item Number 4.1.3 of SH:	cum	0.424	4,514.05	1,913.96(A)
	Concrete work				
	Extra labour for laying C.C. in RCC work				
0114	Beldar	day	0.042	247.00	10.37
0101	Bhisti	day	0.085	260.00	22.10
0123	Mason (brick layer) 1 st class	day	0.017	301.00	5.12
0124	Mason (brick layer) 2nd class	day	0.017	273.00	4.64
0128	Mate	day	0.017	260.00	4.42
	Form work-				
	4.93x0.83 girth = 4.09 sqm				
5.9.5	Rate as per Item Number 5.9.5 of SH:	sqm	4.09	262.25	1,072.60(A)
	Reinforced cement concrete work				
9999	Sundries and for lifting materials	L.S.	21.58	1.49	32.15
	TOTAL				3,065.36
	Add Water Charges @ 1% except on A i.e on (3,065.36 - 2,986.56 =) 78.80				0.79
	TOTAL				3,066.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (3,066.15 - 2,986.56 =) 79.59 Cost of 0.424 cum Cost of 1 cum Say				11.94 3,078.09 7,259.65 7,259.65

5.20 Encasing rolled steel section in grillages with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including centering and shuttering but excluding cost of expanded metal and hangers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for the grillage</i> 3.50mx3.50mx1.00m Cement concrete 1:2:4: 3.50mx3.50x1.00=12.25cum Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work Extra labour for laying C.C. in RCC work	cum	12.25	4,514.05	55,297.11(A)
0114	Beldar	day	1.225	247.00	302.58
0101	Bhisti	day	2.45	260.00	637.00
0123	Mason (brick layer) 1 st class	day	0.49	301.00	147.49
0124	Mason (brick layer) 2nd class	day	0.49	273.00	133.77
0128	Mate	day	0.49	260.00	127.40
5.9.5	Shuttering : 2(3.50+3.50)x1.00= 14.00 sqm Rate as per Item Number 5.9.5 of SH: Reinforced cement concrete work	sqm	14.00	262.25	3,671.50(A)
	TOTAL				60,316.85
	Add Water Charges @ 1% except on A i.e on (60,316.85 - 58,968.61 =) 1,348.24				13.48
	TOTAL				60,330.33
	Add CPOH @ 15% except on A i.e on (60,330.33 - 58,968.61 =) 1,361.72				204.26
	Cost of 12.25 cum				60,534.59
	Cost of 1 cum				4,941.60
	Say				4,941.60

5.21 Extra for providing and fixing expanded metal mesh of size 20x60 mm and strands 3.25 mm wide 1.6 mm thick weighing 3.64 kg per sqm for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1015	<i>Details of cost for 10 sqm</i> MATERIAL: Expanded metal 20 mm x 60 mm and 1.6 mm thick = 10 sqm wastage 5 % = 0.50 sqm Total =10.50 sqm Mild steel expanded metal 20x60 mm strands	sqm	10.50	270.00	2,835.00
9999	Carriage of expended metal	L.S.	13.52	1.49	20.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Wire for tying	L.S.	13.52	1.49	20.14
0102	Cost of bending and placing in position				
0102	Blacksmith 1 st class	day	0.25	301.00	75.25
0114	Beldar	day	0.25	247.00	61.75
	TOTAL				3,012.28
	Add Water Charges @ 1%				30.12
	TOTAL				3,042.40
	Add CPOH @ 15%				456.36
	Cost of 10 sqm				3,498.76
	Cost of 1 sqm				349.88
	Say				349.90

5.22 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level

5.22.1 Mild steel and Medium Tensile steel bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcement	quintal	1.05	4,050.00	4,252.50
	Carriage of steel $1.05/10 = 0.105t$				
2205	Carriage of steel	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				4,887.52
	Add Water Charges @ 1%				48.88
	TOTAL				4,936.40
	Add CPOH @ 15%				740.46
	Cost of 100 kilogram				5,676.86
	Cost of 1 kilogram				56.77
	Say				56.75

5.22.2 Hard drawn steel wire

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	4,200.00	4,410.00
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	77.87	8.18

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For cutting and laying in position etc				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				5,006.28
	Add Water Charges @ 1%				50.06
	TOTAL				5,056.34
	Add CPOH @ 15%				758.45
	Cost of 100 kilogram				5,814.79
	Cost of 1 kilogram				58.15
	Say				58.15

5.22.3 Cold twisted bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar day 1.00 247.00 247.00				
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.22.4 Hot rolled deformed bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % =0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR: For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.22.5 Hard drawn steel wire fabric

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire fabric 100kg/7.75kg = 12.903 sqm				
	Wastage 5 % = 0.64 sqm				
	Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5,825.64
	Carriage 1.05q = 0.105 tonne				
2205	Carriage of steel	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74
	LABOUR:				
	For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	1.50	247.00	370.50
9999	Sundries and binding wire	L.S.	13.52	1.49	20.14
	TOTAL				6,317.80
	Add Water Charges @ 1%				63.18
	TOTAL				6,380.98
	Add CPOH @ 15%				957.15
	Cost of 100 kilogram				7,338.13
	Cost of 1 kilogram				73.38
	Say				73.40

5.22.6 - Thermo-Mechanically Treated bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Add 5% wastage =0.05				
	Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
	Carriage of steel 1.05/10 = 0.105t				
2205	Carriage of steel	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.22A Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.

5.22A.1 Mild steel and Medium Tensile steel bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Mild steel bars = 1.00 q				
	Add 5% wastage = 0.05				
	Total = 1.05 q				
1004	Average rate of Mild steel round bars for reinforcement	quintal	1.05	4,050.00	4,252.50
2205	Carriage of steel	tonne	0.105	77.87	8.18
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.49	38.74
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				4,887.52
	Add Water Charges @ 1%				48.88
	TOTAL				4,936.40
	Add CPOH @ 15%				740.46
	Cost of 100 kilogram				5,676.86
	Cost of 1 kilogram				56.77
	Say				56.75

5.22A.2 Hard drawn steel wire

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Hard drawn steel wire = 1.00 q				
	Wastage 5%=0.05q				
	Total = 1.05 q				
1224	Hard drawn steel wire	quintal	1.05	4,200.00	4,410.00
2205	Carriage of steel	tonne	0.105	77.87	8.18
	1.05q = 0.105 tonne				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0102	For cutting and laying in position etc	day	1.00	301.00	301.00
0114	Blacksmith 1 st class	day	1.00	247.00	247.00
9999	Beldar	L.S.	26.91	1.49	40.10
	Sundries				
	TOTAL				5,006.28
	Add Water Charges @ 1%				50.06
	TOTAL				5,056.34
	Add CPOH @ 15%				758.45
	Cost of 100 kilogram				5,814.79
	Cost of 1 kilogram				58.15
	Say				58.15

5.22A.3 Cold twisted bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5% = 0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
2205	Carriage of steel	tonne	0.105	77.87	8.18
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.49	38.74
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.22A.4 Hot rolled deformed bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL:				
	Deformed twisted steel bars = 1.00 q				
	Wastage 5 % =0.05q				
	Total = 1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
2205	Carriage of steel	tonne	0.105	77.87	8.18
	1.05/10 = 0.105t				
9999	Cover block	L.S.	26.00	1.49	38.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR: For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and binding wire	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.22A.5 Hard drawn steel wire fabric

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL: Hard drawn steel wire fabric 100kg/7.75kg = 12.903 sqm., Wastage 5 % = 0.64 sqm Total =13.548 sqm				
1021	Hard drawn steel wire fabric	sqm	13.548	430.00	5,825.64
2205	Carriage of steel 1.05q = 0.105 tonne	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74
	LABOUR: For cutting and laying in position				
0103	Blacksmith 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	1.50	247.00	370.50
9999	Sundries and binding wire	L.S.	13.52	1.49	20.14
	TOTAL				6,317.80
	Add Water Charges @ 1%				63.18
	TOTAL				6,380.98
	Add CPOH @ 15%				957.15
	Cost of 100 kilogram				7,338.13
	Cost of 1 kilogram				73.38
	Say				73.40

5.22A.6 Thermo-Mechanically Treated bars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	MATERIAL: Deformed twisted steel bars = 1.00 q Add 5% wastage =0.05 Total =1.05q				
1005	Twisted steel/ deformed bars	quintal	1.05	4,500.00	4,725.00
2205	Carriage of steel 1.05/10 = 0.105t	tonne	0.105	77.87	8.18
9999	Cover block	L.S.	26.00	1.49	38.74

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
	For straightening, cutting, bending, binding and placing in position				
0102	Blacksmith 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				5,360.02
	Add Water Charges @ 1%				53.60
	TOTAL				5,413.62
	Add CPOH @ 15%				812.04
	Cost of 100 kilogram				6,225.66
	Cost of 1 kilogram				62.26
	Say				62.25

5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:3 (cement:3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.072	3,631.95	261.50
0155	Mason (average)	day	0.51	287.00	146.37
0115	Coolie	day	0.75	247.00	185.25
0101	Bhisti	day	0.92	260.00	239.20
9999	Extra for removing burrs, cleaning with wire brushes pock marking with pointed tool etc. complete	L.S.	13.39	1.49	19.95
9999	Scaffolding and Sundries	L.S.	11.70	1.49	17.43
	TOTAL				869.70
	Add Water Charges @ 1%				8.70
	TOTAL				878.40
	Add CPOH @ 15%				131.76
	Cost of 10 sqm				1,010.16
	Cost of 1 sqm				101.02
	Say				101.00

5.24 Extra for rendering smooth the top of suspended floors, landings and staircases (treads and risers) with cement mortar 1:2 (1 cement : 2 coarse sand) including a floating coat of neat cement and protecting the surface with a layer of 7.5 cm of earth laid over 15 mm of fine sand in case of suspended floor and bricks laid in mud mortar in case of landings and steps including subsequent removal and cleaning of the same.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:2 (1 Cement: 2 Coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.03	4,863.85	145.92
0367	Finishing (Floating coat) with Portland Cement	tonne	0.0213	5,000.00	106.50
2209	Carriage of cement	tonne	0.0213	77.87	1.66

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0124	Mason (brick layer) 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	0.25	247.00	61.75
9999	Spreading earth on floor (7.5mm thick)	L.S.	35.49	1.49	52.88
	Spreading sand 15mm thick on floor				
0983	Fine sand (zone IV)	cum	0.15	640.00	96.00
2261	Carriage of fine sand (1 part badarpur sand: 2 parts jamuna sand)	cum	0.15	87.60	13.14
9999	Disposal of earth spread over floor protection	L.S.	5.33	1.49	7.94
9999	Sundries	L.S.	6.24	1.49	9.30
	TOTAL				609.89
	Add Water Charges @ 1%				6.10
	TOTAL				615.99
	Add CPOH @ 15%				92.40
	Cost of 10 sqm				708.39
	Cost of 1 sqm				70.84
	Say				70.85

5.25 Providing and fixing in position copper plate as per design for expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.56 kg</i>				
	Considering 3.0 m length, width 250mm and 1.6 mm thick = 0.750 sqm copper plate.				
	Weight of copper plate @ 14.08 kg/m ²				
	10.56kg				
0967	Copper plate	kilogram	10.56	270.00	2,851.20
	LABOUR:				
0103	Blacksmith 2nd class	day	0.25	273.00	68.25
9999	Sundries	L.S.	6.24	1.49	9.30
	TOTAL				2,928.75
	Add Water Charges @ 1%				29.29
	TOTAL				2,958.04
	Add CPOH @ 15%				443.71
	Cost of 10.56 kilogram				3,401.75
	Cost of 1 kilogram				322.14
	Say				322.15

5.26 Providing and filling in position, blown bitumen in expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a joint of 300m length</i>				
	<i>2.5cm width and 15cm depth</i>				
	<i>Cubical content of joint:</i>				
	$300 \times 0.025 \times 0.15 = 1.125 \text{ cum}$				
	MATERIAL:				
	Bitumen 85/25 @ 1050kg per cum.				
	$1.25 \times 1050 \text{ kg} = 1181.25 \text{ kg}$				
	Add wastage @ 5% = 59.06 kg.				
	= 1240.31 kg = 1.2401				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	1.24	37,000.00	45,880.00
2211	Carriage of tar / bitumen	tonne	1.24	87.60	108.62
0370	Coal (steam)	quintal	2.48	400.00	992.00
	for heating of bitumen @ 2.0 quintal per tonne of bitumen. $1.240 \times 2.0 = 2.48q = 0.248t$				
2200	Carriage of steam coal	tonne	0.248	100.11	24.83
	LABOUR:				
	Labour for heating, mixing and filling				
0123	Mason (brick layer) 1 st class	day	2.52	301.00	758.52
0124	Mason (brick layer) 2nd class	day	2.52	273.00	687.96
0114	Beldar	day	8.06	247.00	1,990.82
9999	Sundries	L.S.	121.16	1.49	180.53
	TOTAL 50,623.28				
	Add Water Charges @ 1% 506.23				
	TOTAL				51,129.51
	Add CPOH @ 15%				7,669.43
	Cost of 300m length 2.5cm width and 15cm depth				58,798.94
	per cm depth per cm width per 100 m				522.66
	Say				522.65

5.27 Providing and filling in position bitumen mix filler of Proportion 80 kg of hot bitumen, 1 kg of cement and 0.25 cubic metre of coarse sand for expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 300m length 2.5cm width and 15cm depth</i>				
	<i>Cubical content of joints:</i>				
	$300 \times 0.150 \times 0.025 = 1.125 \text{ cum}$				
	MATERIAL:				
	Bitumen S-90 = 256.30 kg per cum				
	$256.30 \times 1.125 = 288.34 \text{ kg}$				
	Add for wastage @ 5% = 14.42 kg				
	Total = 302.76 kg. or = 0.303 tonne				
0309	Paving bitumen of grade VG-10 of approved quality	tonne	0.303	37,000.00	11,211.00
2211	Carriage of tar / bitumen	tonne	0.303	87.60	26.54
0370	Coal (steam)	quintal	0.606	400.00	242.40
	for heating of bitumen @ 2.0 quintal per tonne of bitumen, i.e. $0.303 \times 2.0 = 0.606q$				
2200	Carriage of steam coal	tonne	0.061	100.11	6.11
0367	Portland Cement	tonne	0.0036	5,000.00	18.00
	$1/80 \times 228.34 = 3.6 \text{ kg} = 0.0036 \text{ Tonne}$				
2209	Carriage of cement	tonne	0.0036	77.87	0.28
0982	Coarse sand (zone III)	cum	0.90	1,120.00	1,008.00
	$1/4 \text{th of the quantity of cement in kg} = 3.6/4 = 0.90 \text{ cum}$				
2203	Carriage of coarse sand	cum	0.90	87.60	78.84
	LABOUR:				
	for heating and filling				
0123	Mason (brick layer) 1 st class	day	2.52	301.00	758.52

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0124	Mason (brick layer) 2nd class	day	2.52	273.00	687.96
0114	Beldar	day	8.06	247.00	1,990.82
9999	Sundries	L.S.	121.16	1.49	180.53
	TOTAL				16,209.00
	Add Water Charges @ 1%				162.09
	TOTAL				16,371.09
	Add CPOH @ 15%				2,455.66
	Cost of 300m length 2.5cm wide and 15cm depth				18,826.75
	Cost per cm depth per cm width per 100m				167.35
	Say				167.35

5.28 Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS: 1838, including cost of primer, sealing compound in expansion joints.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for for joint 100m long 10cm deep and 12mm thick</i>				
	MATERIAL:				
0339	(i) Impregnated fibre board 1x100x0.075=7.5sqm Flame retardant face insulating, Impregnated fibre board 12 mm thick	sqm	7.50	350.00	2,625.00
0316	(ii) Primere 80m/litter 100m=100/80 x1=1.25 lit Bitumen solution primer of approved quality	litre	1.25	40.00	50.00
	(iii) Sealing compound @ 3 m per litre for 100m = 100/3x1 =33.3 litres Wastage @ 5% = 1.67 Total = 35.00 litre (1 litre = 0.9 kg) = 35.00x0.9 = 31.5 kg				
0314	Bitumen hot sealing compound : grade A	kilogram	31.50	26.00	819.00
9999	Carriage	L.S.	26.91	1.49	40.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				3,704.83
	Add Water Charges @ 1%				37.05
	TOTAL				3,741.88
	Add CPOH @ 15%				561.28
	Cost of 100m long 10cm deep				4,303.16
	Cost per cm depth per 100m				430.32
	Say				430.30

5.29 Providing and fixing sheet covering over expansion joints with iron screws as per design.

5.29.1 Non-asbestos fibre cement board 6mm thick as per IS : 14862

5.29.1.1 150 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3m length</i>				
	MATERIAL:				
0236	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	0.47	182.00	85.54
2273	Carriage of A.C.sheet and accessories 0.45sqm = 0.0049 tonne	tonne	0.0049	77.87	0.38
9999	50mm iron screws with washer and rawl plugs	L.S.	40.30	1.49	60.05
	LABOUR:				
0112	Carpenter 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				249.97
	Add Water Charges @ 1%				2.50
	TOTAL				252.47
	Add CPOH @ 15%				37.87
	Cost of 3 metre				290.34
	Cost of 1 metre				96.78
	Say				96.80

5.29.1.2 200 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3m length</i>				
	MATERIAL:				
0236	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick	sqm	0.63	182.00	114.66
2273	Carriage of A.C.sheet and accessories 0.60sqm. = 0.0065 tonne	tonne	0.0065	77.87	0.51
9999	50mm iron screws with washer and rawl	L.S.	53.82	1.49	80.19
	LABOUR:				
0112	Carpenter 2nd class	day	0.27	273.00	73.71
0114	Beldar	day	0.27	247.00	66.69
	TOTAL				335.76
	Add Water Charges @ 1%				3.36
	TOTAL				339.12
	Add CPOH @ 15%				50.87
	Cost of 3 metre				389.99
	Cost of 1 metre				130.00
	Say				130.00

5.29.2 Aluminium fluted strips 3.15 mm thick

5.29.2.1 150 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2391	Strips-Aluminium fluted 3.15 mm thick and 150 mm wide	metre	1.00	228.00	228.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	6.00	30.00	1.80
9999	Carriage of materials	L.S.	1.04	1.49	1.55
	LABOUR:				
0112	Carpenter 2nd class	day	0.067	273.00	18.29
0114	Beldar	day	0.067	247.00	16.55
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				268.90
	Add Water Charges @ 1%				2.69
	TOTAL				271.59
	Add CPOH @ 15%				40.74
	Cost of 1 metre				312.33
	Say				312.35

5.29.2.2 200 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2392	Strips Aluminium fluted 3.15 mm thick and 200 mm wide	metre	1.00	323.00	323.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	6.00	30.00	1.80
9999	Carriage of materials	L.S.	1.30	1.49	1.94
	LABOUR:				
0112	Carpenter 2nd class	day	0.089	273.00	24.30
0114	Beldar	day	0.089	247.00	21.98
9999	Sundries	L.S.	2.34	1.49	3.49
	TOTAL				376.51
	Add Water Charges @ 1%				3.77
	TOTAL				380.28
	Add CPOH @ 15%				57.04
	Cost of 1 metre				437.32
	Say				437.30

5.30 Add for plaster drip course / groove in plastered surface or moulding to R.C.C. projections.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 metre long throating or plaster or moulding</i>				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.50	301.00	150.50
0124	Mason (brick layer) 2nd class	day	0.50	273.00	136.50
0115	Coolie	day	1.00	247.00	247.00
9999	Add for material (cement mortar etc.)	L.S.	26.91	1.49	40.10
	TOTAL				574.10
	Add Water Charges @ 1%				5.74
	TOTAL				579.84
	Add CPOH @ 15%				86.98
	Cost of 30 metre				666.82
	Cost of 1 metre				22.23
	Say				22.25

- 5.31** Extra for laying reinforced cement concrete in or under water and/ or liquid mud including cost of pumping or bailing out water and removing slush etc., complete. **Note:-** The quantity will be calculated by multiplying the depth measured from the subsoil water level upto the centre of gravity of the R.C.C. under subsoil water with the quantity of R.C.C. in cubic metre executed under subsoil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 and less than 0.05 m ignored. No extra payment shall be made for placing reinforcement or centering & shuttering under subsoil water conditions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	Details of cost for depth of water 0.30m. Quantity of concrete = 14 cum Analysis same as per item number 4.15 Pumping hours = 3 hrs. or 0.375 day Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	500.00	187.50
0114	for cleaning slush Beldar	day	4.00	247.00	988.00
	TOTAL				1,175.50
	Add Water Charges @ 1%				11.76
	TOTAL				1,187.26
	Add CPOH @ 15%				178.09
	Cost of 14cum. per 0.30m depth				1,365.35
	Cost of 1 cum				325.08
	Say				325.10

- 5.32** Extra for laying reinforced cement concrete in or under foul positions.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 1 cum . Analysis same as per item number 4.16 Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	301.00	6.02
0124	Mason (brick layer) 2nd class	day	0.02	273.00	5.46
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	0.15	247.00	37.05
	TOTAL				110.28
	Add Water Charges @ 1%				1.10
	TOTAL				111.38
	Add CPOH @ 15%				16.71
	Cost of 1 cum				128.09
	Say				128.10

- 5.33** Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. **Note:-** Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.

5.33.1 All work upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.50	60.22
	Production cost, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,513.27
	Add Water Charges @ 1%				45.13
	TOTAL				4,558.40
	Add CPOH @ 15%				683.76
	Cost of 1 cum				5,242.16
	Say				5,242.15

5.33.2 All work above plinth level upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.50	60.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0004	Production cost, pumping to respective floors and laying in position	cum	1.00	350.00	350.00
0009	Production cost of concrete by batch mix plant	cum	1.00	130.00	130.00
	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.				
	LABOUR:				
	Labour for pouring, consolidating & curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				4,977.63
	Add Water Charges @ 1%				49.78
	TOTAL				5,027.41
	Add CPOH @ 15%				754.11
	Cost of 1 cum				5,781.52
	Say				5,781.50

5.34 Extra for providing richer mixes at all floor levels. Note:- Excess/ less cement over the specified cement content used is payable/ recoverable separately.

5.34.1 Providing M-30 grade concrete instead of M-25 grade BMC/RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-30 mix = 0.340 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.010 t				
0367	Portland Cement	tonne	0.01	5,000.00	50.00
2209	Carriage of cement	tonne	0.01	77.87	0.78
	Plasticizer for M-30 mix = 2.00 kg				
	Plasticizer for M-25 mix = 1.90 kg				
	Difference = 0.10 kg				
7318	Plasticizer / super plasticizer	kilogram	0.10	36.50	3.65
	TOTAL				54.43
	Add Water Charges @ 1%				0.54
	TOTAL				54.97
	Add CPOH @ 15%				8.25
	Cost of 1 cum				63.22
	Say				63.20

5.34.2 Providing M-35 grade concrete instead of M-25 grade BMC/RMC. (Note : Cement content considered in M-35 is @ 350 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-35 mix = 0.350 t				
	Cement for M-25 mix = 0.330 t				
	Difference 0.020 t				
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.02	77.87	1.56
	Plasticizer for M-35 mix = 2.10 kg				
	Plasticizer for M-25mix = 1.90 kg				
	Difference = 0.20 kg				
7318	Plasticizer / super plasticizer	kilogram	0.20 3	6.50	7.30
	TOTAL				108.86
	Add Water Charges @ 1%				1.09
	TOTAL				109.95
	Add CPOH @ 15%				16.49
	Cost of 1 cum				126.44
	Say				126.45

5.34.3 Providing M-40 grade concrete instead of M-25 grade BMC/RMC.(Note : Cement content considered in M-40 is @ 360 kg/cum)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum .</i>				
	Cement for M-40 mix = 0.360 t				
	Cement for M-25 mix = 0.330 t				
	Difference = 0.030 t				
0367	Portland Cement	tonne	0.03	5,000.00	150.00
2209	Carriage of cement	tonne	0.03	77.87	2.34
	Plasticizer for M-40 mix = 2.135 kg				
	Plasticizer for M-25mix = 1.900 kg				
	Difference = 0.235 kg				
7318	Plasticizer / super plasticizer	kilogram	0.235	36.50	8.58
	TOTAL				160.92
	Add Water Charges @ 1%				1.61
	TOTAL				162.53
	Add CPOH @ 15%				24.38
	Cost of 1 cum				186.91
	Say				186.90

5.35 Add for using extra cement in the items of design mix over and above the specified cement content therein.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 quintal</i>				
	0367 Portland Cement	tonne	0.10	5,000.00	500.00
2209	Carriage of cement	tonne	0.10	77.87	7.79
	TOTAL				507.79
	Add Water Charges @ 1%				5.08
	TOTAL				512.87
	Add CPOH @ 15%				76.93
	Cost of 1 quintal				589.80
	Say				589.80

- 5.36 Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular as per design and shape for floors and roofs in 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints in cement mortar 1:2 (1 cement : 2 Fine sand), making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting, handling, hoisting, centering and erection complete for all floor levels but excluding the cost of reinforcement.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
5.2.2	<i>Details of cost for 1.38 cum</i> Consider a waffle 09. x 0.9 x 0.3m Total area covered 4.548 x 3.636 = 16.54 sqm. Cement concrete in 1unit Top 0.8 x 0.8 x 0.035 = 0.0224 sides 2(0.8 x 0.265 x 0.0325) = 0.0138 2(0.735 x 0.265 x 0.0325) = 0.0127 Total = 0.0489 Flange 4 x 0.85 x 0.05 x 0.035 = 0.0060 Total = 0.0549 Add for Fillets 25% = 0.0137 Total = 0.069 cum. Quantity for 20 such units = 1.38 cum Rate as per Item Number 5.2.2 of SH: Reinforced cement concrete work (i) Shuttering and centring Face in contact 4 x 0.8 x 0.265 = 0.848 Inner 4 x 0.735 x 0.265 = 0.779 Top (inside) 1 x 0.735 x 0.735 = 0.540 Flange 4 x 0.9 x 0.035 = 0.126 Total = 2.293 sqm. Quantity 20 such units 45.86 sqm Rate as per Item Number 5.9.15 of SH: Reinforced cement concrete work Hooks for lifting 2 x 1.5 = 3.0 m 4 x 0.01 = 0.04 m = 3.04 m @ 3 kg per m 9.12 kg or 0.009 t (ii) 10 mm dia. Bolts 60 mm long with nuts and washers 2 x 2 = 4Nos Rate as per Item Number 10.2 of SH: Steel work	cum	1.38	5,735.75	7,915.33(A)
5.9.15	Hooks for lifting 2 x 1.5 = 3.0 m 4 x 0.01 = 0.04 m = 3.04 m @ 3 kg per m 9.12 kg or 0.009 t (ii) 10 mm dia. Bolts 60 mm long with nuts and washers 2 x 2 = 4Nos Rate as per Item Number 10.2 of SH: Steel work	sqm	45.86	166.90	7,654.03(A)
10.2	Rate as per Item Number 10.2 of SH: Steel work	kg	9.00	66.50	598.50(A)
9999	Including carriage of bolts	L.S.	13.00	1.49	19.37
9999	Sundries	L.S.	79.95	1.49	119.13
	(iv) Transportation and erection labour for 20 units				
0126	Mason (for ornamental stone work) 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	6.00	247.00	1,482.00
	(v) Cost of pointing flush or deep ruled in cement mortar 1:2 (1 Cement : 2 fine sand)				
13.35.1	Rate as per Item Number 13.35.1 of SH: Finishing	sqm	16.54	63.75	1,054.42 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				19,143.78
	Add Water Charges @ 1% except on A i.e on (19,143.78 - 17,222.28 =) 1,921.50				19.22
	TOTAL				19,163.00
	Add CPOH @ 15% except on A i.e on (19,163.00 - 17,222.28 =) 1,940.72				291.11
	Cost of 1.38 cum				19,454.11
	Cost of 1 cum				14,097.18
	Say				14,097.20

5.37 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess/ less cement used as per design mix is payable/ recoverable separately.

5.37.1 All work upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.50	60.22
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	Labour for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,813.27
	Add Water Charges @ 1%				48.13
	TOTAL				4,861.40
	Add CPOH @ 15%				729.21
	Cost of 1 cum				5,590.61
	Say				5,590.60

5.37.2 All work above plinth level upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 cum</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.57	1,050.00	598.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.28	1,050.00	294.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.85	87.60	74.46
0982	Coarse sand (zone III)	cum	0.425	1,120.00	476.00
2203	Carriage of coarse sand	cum	0.425	87.60	37.23
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer 0.50% of cement	kilogram	1.65	36.50	60.22
	Production Cost, carriage to site, pumping to respective floors and laying in position				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	Labour for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				5,277.63
	Add Water Charges @ 1%				52.78
	TOTAL				5,330.41
	Add CPOH @ 15%				799.56
	Cost of 1 cum				6,129.97
	Say				6,129.95

5.38 Extra for R.C.C. / B.M.C / R.M.C. work above floor V level for each four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0009	<i>Details of cost for 1 cum</i> MATERIAL: Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	TOTAL				130.00
	Add Water Charges @ 1%				1.30
	TOTAL				131.30
	Add CPOH @ 15%				19.70
	Cost of 1 cum				151.00
	Say				151.00

5.40 Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using fly ash and cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering, finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Note:- (1)Cement content considered in this item is @330 kg/ cum. Excess/ less cement used as per design mix is payable /recoverable separately. (2) Fly ash conforming to grade I of IS: 3812 (part-1) only be used as part replacement of OPC as per IS: 456. Uniform blending with cement to be ensured in accordance with clause 5.2 and 5.2.1 of IS: 456 - 2000 in the items of BMC and RMC.

5.40.1 All works up to Plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0293	<i>Details of cost for 1 cum</i> MATERIAL: Stone Aggregate (Single size) : 40 mm nominal size (0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)	cum	0.65	950.00	617.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer	kilogram	1.65	36.50	60.22
	Production cost, carriage to site, pumping to respective floors and laying in position.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	LABOUR: for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				4,752.33
	Add Water Charges @ 1%				47.52
	TOTAL				4,799.85
	Add CPOH @ 15%				719.98
	Cost of 1 cum				5,519.83
	Say				5,519.85

5.40.2 All works above plinth & up to floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
0293	Stone Aggregate (Single size) : 40 mm nominal size	cum	0.65	950.00	617.50
	(0.70 - 7.5% for voids i.e. 0.05 = 0.65 cum)				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.24	1,050.00	252.00
2206	Carriage of stone aggregate 40 mm nominal size and above	cum	0.65	95.22	61.89
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.24	87.60	21.02
0982	Coarse sand (zone III)	cum	0.37	1,120.00	414.40
2203	Carriage of coarse sand	cum	0.37	87.60	32.41
1980	Fly ash	cum	0.21	7.75	1.63
2262	Carriage of flyash	cum	0.21	87.60	18.40
0367	Portland Cement	tonne	0.33	5,000.00	1,650.00
2209	Carriage of cement	tonne	0.33	77.87	25.70
7318	Plasticizer / super plasticizer	kilogram	1.65	36.50	60.22
	Production cost, carriage to site, pumping to respective floors and laying in position.				
0004	Production cost of concrete by batch mix plant	cum	1.00	350.00	350.00
0029	Carriage of concrete by transit mixer	km/cum	10.00	30.00	300.00
0009	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	1.00	130.00	130.00
	LABOUR: for pouring, consolidating and curing				
0155	Mason (average)	day	0.17	287.00	48.79
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.90	260.00	234.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0012	Vibrator (Needle type 40 mm)	day	0.07	300.00	21.00
9999	Sundries	L.S.	13.00	1.49	19.37
	Extra labour for lifting up to floor five level 0.75 x 2.5 = 1.88				
0115	Coolie	day	1.88	247.00	464.36
	TOTAL				5,216.69
	Add Water Charges @ 1%				52.17
	TOTAL				5,268.86
	Add CPOH @ 15%				790.33
	Cost of 1 cum				6,059.19
	Say				6,059.20

5.41 Supplying and applying pre tested and approved water based concrete curing compound to concrete/ masonry surface, all as per manufacturer's specification and direction of Engineer-in-charge.

5.41.1 Non pigmented wet curing compound

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
7178	MATERIAL: Chemical ASTM-type I Coverage of chemical 5 sqm per kg. Chemical required for 10 sqm = 10 /5 = 2 kg	kg	2.00	100.00	200.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.46	273.00	125.58
0115	Coolie	day	0.23	247.00	56.81
0101	Bhisti	day	0.10	260.00	26.00
9999	Scaffolding and sundries	L.S.	8.06	1.49	12.01
	Extra labour for clean up process				
0114	Beldar	day	0.75	247.00	185.25
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.00	1.49	119.20
	TOTAL				724.85
	Add Water Charges @ 1%				7.25
	TOTAL				732.10
	Add CPOH @ 15%				109.82
	Cost of 10 sqm				841.92
	Cost of 1 sqm				84.19
	Say				84.20

5.41.2 Pigmented wet curing compound

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Details cost for 10 sqm Based on DAR item 13.44.1				
7281	MATERIAL: Chemical ASTM-type II Coverage of chemical 5 sqm per kg. Chemical required for 10 sqm = 10 /5 = 2 kg	kg	2.00	160.00	320.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.46	273.00	125.58
0115	Coolie	day	0.23	247.00	56.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.10	260.00	26.00
9999	Scaffolding and sundries	L.S.	8.06	1.49	12.01
	Extra labour for clean up process				
0114	Beldar	day	0.75	247.00	185.25
9999	Extra machinery, hand pump, compressor etc.	L.S.	80.00	1.49	119.20
	TOTAL				844.85
	Add Water Charges @ 1%				8.45
	TOTAL				853.30
	Add CPOH @ 15%				127.99
	Cost of 10 sqm				981.29
	Cost of 1 sqm				98.13
	Say				98.15

5.42 Providing and fixing tapered / parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement – Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works as per direction of Engineer-in-Charge . (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made).

5.42.1 Coupler for 16 mm diameter reinforcement bar

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2394	Coupler 16 mm dia	each	1.00	67.50	67.50
	LABOUR:				
9999	For placing in position and fixing	L.S.	3.77	1.49	5.62
9999	Tapered / Parallel threading charges	L.S.	17.77	1.49	26.48
	TOTAL				99.60
	Add Water Charges @ 1%				1.00
	TOTAL				100.60
	Add CPOH @ 15%				15.09
	Cost of each				115.69
	Say				115.70

5.42.2 Coupler for 20 mm diameter reinforcement bar

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2395	Coupler 20 mm dia	each	1.00	87.75	87.75
	LABOUR:				
9999	For placing in position and fixing	L.S.	5.90	1.49	8.79
9999	Tapered / Parallel threading charges	L.S.	25.17	1.49	37.50
	TOTAL				134.04
	Add Water Charges @ 1%				1.34
	TOTAL				135.38
	Add CPOH @ 15%				20.31
	Cost of each				155.69
	Say				155.70

5.42.3 - Coupler for 25 mm diameter reinforcement bar

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2396	Coupler 25 mm dia	each	1.00	129.50	129.50
	LABOUR:				
9999	For placing in position and fixing	L.S.	8.69	1.49	12.95
9999	Tapered / Parallel threading charges	L.S.	29.61	1.49	44.12
	TOTAL				186.57
	Add Water Charges @ 1%				1.87
	TOTAL				188.44
	Add CPOH @ 15%				28.27
	Cost of each				216.71
	Say				216.70

5.42.4 Coupler for 28 mm diameter reinforcement bar

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2397	Coupler 28 mm dia	each	1.00	191.25	191.25
	LABOUR:				
9999	For placing in position and fixing	L.S.	12.84	1.49	19.13
9999	Tapered / Parallel threading charges	L.S.	32.57	1.49	48.53
	TOTAL				258.91
	Add Water Charges @ 1%				2.59
	TOTAL				261.50
	Add CPOH @ 15%				39.22
	Cost of each				300.72
	Say				300.70

5.42.5 Coupler for 32 mm diameter reinforcement bar

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one</i>				
	MATERIAL:				
2398	Coupler 32 mm dia	each	1.00	230.50	230.50
	LABOUR:				
9999	For placing in position and fixing	L.S.	15.48	1.49	23.07
9999	Tapered / Parallel threading charges	L.S.	32.57	1.49	48.53
	TOTAL				302.10
	Add Water Charges @ 1%				3.02
	TOTAL				305.12
	Add CPOH @ 15%				45.77
	Cost of each				350.89
	Say				350.90

5.43 Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.

5.43.1 200 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	1.60	275.00	440.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	6.00	29.00	1.74
9999	Carriage of materials	L.S.	1.30	1.49	1.94
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	273.00	18.29
0114	Beldar	day	0.067	247.00	16.55
9999	Sundries	L.S.	2.34	1.49	3.49
	TOTAL				482.01
	Add Water Charges @ 1%				4.82
	TOTAL				486.83
	Add CPOH @ 15%				73.02
	Cost of 1 metre				559.85
	Say				559.85

5.43.2 300 mm wide

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
2393	1 mm thick Stainless Steel Cover plate grade 304	kg	2.40	275.00	660.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	6.00	29.00	1.74
9999	Carriage of materials	L.S.	1.30	1.49	1.94
	LABOUR:				
0103	Blacksmith 2nd class	day	0.067	273.00	18.29
0114	Beldar	day	0.067	247.00	16.55
9999	Sundries	L.S.	2.34	1.49	3.49
	TOTAL				702.01
	Add Water Charges @ 1%				7.02
	TOTAL				709.03
	Add CPOH @ 15%				106.35
	Cost of 1 metre				815.38
	Say				815.40

SUB HEAD : 6.0
BRICK WORK

6.1 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in :

6.1.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3,485.40	871.35
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	301.00	108.36
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0115	Coolie	day	1.37	247.00	338.39
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				3,020.45
	Add Water Charges @ 1%				30.20
	TOTAL				3,050.65
	Add CPOH @ 15%				457.60
	Cost of 1 cum				3,508.25
	Say				3,508.25

6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
	Cement mortar 1:6				
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	301.00	108.36
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0115	Coolie	day	1.37	247.00	338.39
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				2,855.42
	Add Water Charges @ 1%				28.55
	TOTAL				2,883.97
	Add CPOH @ 15%				432.60
	Cost of 1 cum				3,316.57
	Say				3,316.55

6.2 Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in :

6.2.1 Cement mortar 1:4(1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	3,150.00	1,534.05
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement mortar 1 :4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				2,901.89
	Add Water Charges @ 1%				29.02
	TOTAL				2,930.91
	Add CPOH @ 15%				439.64
	Cost of 1 cum				3,370.55
	Say				3,370.55

6.2.2 Cement Mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	3,150.00	1,534.05
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement mortar 1 :6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				2,756.67
	Add Water Charges @ 1%				27.57
	TOTAL				2,784.24
	Add CPOH @ 15%				417.64
	Cost of 1 cum				3,201.88
	Say				3,201.90

6.3 Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :

6.3.1 With F.P.S. (non modular) bricks

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
7901	MATERIAL: Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4,150.00	2,050.10
2201	Carriage of bricks Cement mortar 1 :6	1000 Nos	494.00	233.60	115.40
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,954.70
	Add Water Charges @ 1%				39.55
	TOTAL				3,994.25
	Add CPOH @ 15%				599.14
	Cost of 1 cum				4,593.39
	Say				4,593.40

6.3.2 - With Modular bricks

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
7902	MATERIAL: Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	3,800.00	1,850.60
2201	Carriage of bricks Cement mortar 1:6	1000 Nos	487.00	233.60	113.76
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	301.00	132.44
0124	Mason (brick layer) 2nd class	day	0.44	273.00	120.12
0115	Coolie	day	1.43	247.00	353.21
0101	Bhisti	day	0.18	260.00	46.80
9999	Scaffolding	L.S.	16.38	1.49	24.41
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,546.09
	Add Water Charges @ 1%				35.46
	TOTAL				3,581.55
	Add CPOH @ 15%				537.23
	Cost of 1 cum				4,118.78
	Say				4,118.80

6.4 Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :
6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
2602	MATERIAL: Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3,485.40	871.35
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,502.23
	Add Water Charges @ 1%				35.02
	TOTAL				3,537.25
	Add CPOH @ 15%				530.59
	Cost of 1 cum				4,067.84
	Say				4,067.85

6.4.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,337.20
	Add Water Charges @ 1%				33.37
	TOTAL				3,370.57
	Add CPOH @ 15%				505.59
	Cost of 1 cum				3,876.16
	Say				3,876.15

6.5 Extra for brick work/ AAC block masonry/ Tile brick masonry in super structure above floor V level, for each four floors or part thereof by mechanical means.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0037	<i>Details of cost for 5.3 cum per four floors</i>				
	Mobile crane	day	0.125	6,500.00	812.50
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.00	41.29	330.32
	TOTAL				1,142.82
	Add Water Charges @ 1%				11.43
	TOTAL				1,154.25
	Add CPOH @ 15%				173.14
	Cost of 5.3 cum				1,327.39
	Cost of 1 cum				250.45
	Say				250.45

6.6 Extra for forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M.S. ties 300 mm long of 25x3 mm section at not less than 3 ties per sqm as per approved design.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Mild steel 25mmx3mm section 30cm long				
	30 No. = 9 metres @ 0.6kg/m = 5.40 kg				
1008	Flats up to 10 mm in thickness	quintal	0.054	4,200.00	226.80
9999	Painting the steel with bitumen	L.S.	13.52	1.49	20.14
2205	Carriage of steel	tonne	0.005	77.87	0.39
	Extra labour for keeping cavity clear and fixing wall ties and delay caused				
0123	Mason (brick layer) 1 st class	day	0.37	301.00	111.37
0124	Mason (brick layer) 2nd class	day	0.37	273.00	101.01
0114	Beldar	day	0.92	247.00	227.24
9999	Add for use of Core	L.S.	4.55	1.49	6.78
	TOTAL				693.73
	Add Water Charges @ 1%				6.94
	TOTAL				700.67
	Add CPOH @ 15%				105.10
	Cost of 10 sqm				805.77
	Cost of 1 sqm				80.58
	Say				80.60

6.7 Providing half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure for closing cavity 5 to 7.5 cm wide in cavity wall complete with 10 cm/ 11.4 cm wide bitumen felt type 3 grade 1.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10m length</i>				
	MATERIAL:				
	Half brick masonry 1:3 (Average)				
	1x10x0.27 = 2.7 sqm				
6.12.1	Rate as per Item Number 6.12.1 of SH: Brick work	sqm	2.70	438.40	1,183.68(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0322	Bitumen felt type- 3 grade 1 1x10mx11.4m =1.14 sqm. Add for wastage and overlapping @ 5% = 0.06 sqm. Total = 1.20 sqm	sqm	1.20	50.00	60.00
0123	Bitumen felt :Type 3 grade 1 LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76
0114	Beldar	day	0.06	247.00	14.82
	TOTAL				1,327.38
	Add Water Charges @ 1% except on A i.e on (1,327.38 - 1,183.68 =) 143.70				1.44
	TOTAL				1,328.82
	Add CPOH @ 15% except on A i.e on (1,328.82 - 1,183.68 =) 145.14				21.77
	Cost of 10 metre				1,350.59
	Cost of 1 metre				135.06
	Say				135.05

6.8 Brick work 7 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
2602	MATERIAL: Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	377.00	2,900.00	1,093.30
3.8	Cement mortar 1:3 Rate as per Item Number 3.8 of SH: Mortars	cum	0.181	4,145.55	750.34
2201	Carriage of bricks	1000 Nos	377.00	233.60	88.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.72	301.00	216.72
0124	Mason (brick layer) 2nd class	day	0.72	273.00	196.56
0115	Coolie	day	1.76	247.00	434.72
0101	Bhisti	day	0.36	260.00	93.60
9999	Sundries and scaffolding	L.S.	7.15	1.49	10.65
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				3,202.59
	Add Water Charges @ 1%				32.03
	TOTAL				3,234.62
	Add CPOH @ 15%				485.19
	Cost of 10 sqm				3,719.81
	Cost of 1 sqm				371.98
	Say				372.00

6.9 Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
2602	MATERIAL: Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4,145.55	1,036.39
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	Centering and Shuttering: Taking a semi circular arch 3.6m span, 3.6m long and 0.40m thick Area of centering = $3.142 \times 1.8 \times 3.6 = 20.37$ sqm. Brick work in Arch = $3.142 \times 2.00 \times 0.4 \times 3.6 = 9.05$ cum. Area per cum = $20.37 / 9.05 = 2.25$ sqm				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	866.70	1,950.08(A)
9999	Scaffolding	L.S.	18.85	1.49	28.09
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.53	301.00	159.53
0124	Mason (brick layer) 2nd class	day	0.53	273.00	144.69
0115	Coolie	day	2.29	247.00	565.63
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				5,767.59
	Add Water Charges @ 1% except on A i.e on (5,767.59 - 1,950.08 =) 3,817.51				38.18
	TOTAL				5,805.77
	Add CPOH @ 15% except on A i.e on (5,805.77 - 1,950.08 =) 3,855.69				578.35
	Cost of 1 cum				6,384.12
	Say				6,384.10

6.10 Brick work in gauged arches in superstructure above plinth level and upto floor five level in cement mortar 1:3 (1 cement : 3 coarse sand) including centering and shuttering complete, for span up to 6 meters with common burnt clay F.P.S. (non modular) bricks of class designation 7.5.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
2602	MATERIAL: Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	538.00	2,900.00	1,560.20
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.25	4,145.55	1,036.39
2201	Carriage of bricks	1000 Nos	538.00	233.60	125.68

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	2.73	1.49	4.07
5.9.9	Centring and shuttering (area same as in item No. 6.9)				
	Rate as per Item Number 5.9.9 of SH:	sqm	2.25	866.70	1,950.08(A)
9999	Reinforced cement concrete work				
	Scaffolding	L.S.	18.85	1.49	28.09
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.13	301.00	340.13
0124	Mason (brick layer) 2nd class	day	1.13	273.00	308.49
0115	Coolie	day	4.42	247.00	1,091.74
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				6,775.98
	Add Water Charges @ 1% except on A i.e on (6,775.98 - 1,950.08 =) 4,825.90				48.26
	TOTAL				6,824.24
	Add CPOH @ 15% except on A i.e on (6,824.24 - 1,950.08 =) 4,874.16				731.12
	Cost of 1 cum				7,555.36
	Say				7,555.35

6.11 Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 33.31 sqm</i> MATERIAL: Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m $2R-2=4+4$ $\tan^{-1} (4/3)=53.28^\circ$ $2 \times 53.28^\circ = 106^\circ$ Surface area $= 2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.3 \text{ sqm.}$ Arc = 9.25m Material: Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{ cum}$ Struts- $2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{ cum.}$ Struts- $2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{ cum.}$ Ribs- $6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{ cum.}$ Struts- $2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{ cum.}$ Total = 0.476 cum. For four such frames = $0.476 \times 4 = 1.904 \text{ cum.}$ laggings- $75 \times 3.6 \times 0.125 \times 0.075 = 2.531 \text{ cum.}$ Tie- $2 \times 3.6 \times 0.225 \times 0.038 = 0.062 \text{ cum.}$ Brace- $3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110$ Brace- $3 \times 4 \times 3.8 \times 0.225 \times 0.038 = 0.390$ Sleepers- $4 \times 3.6 \times 0.20 \times 0.15 = 0.432$ Sleepers- $2 \times 4 \times 3.6 \times 0.175 \times 0.075 = 0.378$ Vertical post- $4 \times 4 \times 3.6 \times 0.15 \times 0.15 = 1.296$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197 2204	Total =7.103cum. Qty taken as 1/8th of qty for cost of using once = 7.103/8 = 0.8885 cum (887.90 cudm) Second class kail wood in scantling Carriage of timber Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx 10mm = 8 Nos. @0.25cm each = 2m Total = 18m 18m @ 3.9kg/m = 70.2 kg. = 0.702qtl. Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.0878 qtl.	10 cudm cum	887.90 0.8879	250.00 100.11	22,197.50 88.89
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.- 160x 0.254x 1.58=64.21 kg=0.64qtl. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 qtl	quintal	0.0878	3,950.00	346.81
1034	Bolts and nuts up to 300 mm in length Carriage of steel = 0.1342 t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.0168 tonne	quintal	0.08	5,400.00	432.00
2302	Carriage of G.I.sheet and accessories LABOUR:	tonne	0.0168	77.87	1.31
0112	Carpenter 2nd class	day	28.00	273.00	7,644.00
0114	Beldar	day	24.00	247.00	5,928.00
9999	Sundries	L.S.	134.55	1.49	200.48
5.9.9	Less cost of shattering etc. for an arch exceeding 6m span i.e. for an average of 8m span Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	866.70	-28,869.78(A)
	TOTAL				7,969.21
	Add Water Charges @ 1% except on A i.e on (7,969.21 - -28,869.78 =) 36,838.99				368.39
	TOTAL				8,337.60
	Add CPOH @ 15% except on A i.e on (8,337.60 - -28,869.78 =) 37,207.38				5,581.11
	Cost of 33.31 sqm				13,918.71
	Cost of 1 sqm				417.85
	Say				417.85

6.12 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :

6.12.1 Cement mortar 1:3 (1 cement : 3 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2602	<i>Details of cost for 10 sqm</i> MATERIAL: Common burnt clay F.P.S. (non modular) bricks class designation 7.5 Cement mortar 1:3	1000 Nos	565.00	2,900.00	1,638.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4,145.55	1,160.75
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.45	301.00	135.45
0124	Mason (brick layer) 2nd class	day	0.45	273.00	122.85
0115	Coolie	day	1.55	247.00	382.85
0101	Bhisti	day	0.70	260.00	182.00
	TOTAL				3,774.52
	Add Water Charges @ 1%				37.75
	TOTAL				3,812.27
	Add CPOH @ 15%				571.84
	Cost of 10 sqm				4,384.11
	Cost of 1 sqm				438.41
	Say				438.40

6.12.2 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	2,900.00	1,638.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3,485.40	975.91
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.45	301.00	135.45
0124	Mason (brick layer) 2nd class	day	0.45	273.00	122.85
0115	Coolie	day	1.55	247.00	382.85
0101	Bhisti	day	0.70	260.00	182.00
	TOTAL				3,589.68
	Add Water Charges @ 1%				35.90
	TOTAL				3,625.58
	Add CPOH @ 15%				543.84
	Cost of 10 sqm				4,169.42
	Cost of 1 sqm				416.94
	Say				416.95

6.13 Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.

6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	2,900.00	1,638.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4,145.55	1,160.75
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				4,290.40
	Add Water Charges @ 1%				42.90
	TOTAL				4,333.30
	Add CPOH @ 15%				650.00
	Cost of 10 sqm				4,983.30
	Cost of 1 sqm				498.33
	Say				498.35

6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	2,900.00	1,638.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3,485.40	975.91
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
	Extra labour for lifting materials: 10 x 0.115 x 0.75 x1.5				
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				4,105.56
	Add Water Charges @ 1%				41.06
	TOTAL				4,146.62
	Add CPOH @ 15%				621.99
	Cost of 10 sqm				4,768.61
	Cost of 1 sqm				476.86
	Say				476.85

6.14 Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 59.83 sqm per four floors</i>				
0037	Mobile crane	day	0.125	6,500.00	812.50
	Fuel consumption per hour = 8 litre				
1235	Diesel oil	litre	8.00	41.29	330.32
	TOTAL				1,142.82
	Add Water Charges @ 1%				11.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1,154.25
	Add CPOH @ 15%				173.14
	Cost of 59.83 sqm				1,327.39
	Cost of 1 sqm				22.19
	Say				22.20

6.15 Extra for providing and placing in position 2 Nos 6 mm dia M.S bars at every third course of half brick masonry.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	6mm dia. M.S. bars (round) 2 Nos. @ 30 meter/10sqm. = 60 metre @ 0.22kg/m =13.2 kg				
1002	Mild steel round bar 12 mm dia and below	quintal	0.132	4,100.00	541.20
2205	Carriage of steel	tonne	0.0132	77.87	1.03
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				544.94
	Add Water Charges @ 1%				5.45
	TOTAL				550.39
	Add CPOH @ 15%				82.56
	Cost of 10 sqm				632.95
	Cost of 1 sqm				63.30
	Say				63.30

6.16 Tile brick masonry with common burnt clay tile bricks of class designation 10 in foundation and plinth in :

6.16.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	3,100.00	2,408.70
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.40	3,485.40	1,394.16
2207	Carriage of brick tiles	1000 Nos	777.00	140.16	108.90
9999	Sundries	L.S.	4.55	1.49	6.78
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	301.00	210.70
0124	Mason (brick layer) 2nd class	day	0.70	273.00	191.10
0115	Coolie	day	1.54	247.00	380.38
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				4,752.72
	Add Water Charges @ 1%				47.53
	TOTAL				4,800.25
	Add CPOH @ 15%				720.04
	Cost of 1 cum				5,520.29
	Say				5,520.30

6.16.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1984	MATERIAL: Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	3,100.00	2,408.70
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2,825.30	1,130.12
2207	Carriage of brick tiles	1000 Nos	777.00	140.16	108.90
9999	Sundries	L.S.	4.55	1.49	6.78
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	301.00	210.70
0124	Mason (brick layer) 2nd class	day	0.70	273.00	191.10
0115	Coolie	day	1.54	247.00	380.38
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				4,488.68
	Add Water Charges @ 1%				44.89
	TOTAL				4,533.57
	Add CPOH @ 15%				680.04
	Cost of 1 cum				5,213.61
	Say				5,213.60

6.17 Tile brick masonry with common burnt clay machine moulded tile bricks of class designation 12.5 conforming to IS : 2690 (Part I) in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
7904	MATERIAL: Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	777.00	3,700.00	2,874.90
2207	Carriage of brick tiles	1000 Nos	777.00	140.16	108.90
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2,825.30	1,130.12
9999	Sundries	L.S.	4.55	1.49	6.78
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	301.00	210.70
0124	Mason (brick layer) 2nd class	day	0.70	273.00	191.10
0115	Coolie	day	1.54	247.00	380.38
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				4,954.88
	Add Water Charges @ 1%				49.55
	TOTAL				5,004.43
	Add CPOH @ 15%				750.66
	Cost of 1 cum				5,755.09
	Say				5,755.10

6.18 Tile brick masonry with common burnt clay tile bricks of class designation 10 in superstructure above plinth level up to floor V level in cement mortar 1:6 (1 cement : 6 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1984	MATERIAL: Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	3,100.00	2,408.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2207	Carriage of brick tiles	1000 Nos	777.00	140.16	108.90
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.40	2,825.30	1,130.12
9999	Sundries	L.S.	4.55	1.49	6.78
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.90	301.00	270.90
0124	Mason (brick layer) 2nd class	day	0.90	273.00	245.70
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour for lifting of materials				
0115	Coolie	day	1.13	247.00	279.11
9999	Cost of scaffolding	L.S.	33.80	1.49	50.36
	TOTAL				4,997.17
	Add Water Charges @ 1%				49.97
	TOTAL				5,047.14
	Add CPOH @ 15%				757.07
	Cost of 1 cum				5,804.21
	Say				5,804.20

6.19 Deleted.

6.20 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in plain arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	777.00	3,100.00	2,408.70
2207	Carriage of brick tiles	1000 Nos	777.00	140.16	108.90
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.35	3,485.40	1,219.89
9999	Sundries	L.S.	5.46	1.49	8.14
	Centering and shuttering area same as in item number 6.9				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	866.70	1,950.08(A)
9999	Scaffolding	L.S.	18.85	1.49	28.09
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.79	301.00	237.79
0124	Mason (brick layer) 2nd class	day	0.79	273.00	215.67
0115	Coolie	day	3.21	247.00	792.87
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				7,301.24
	Add Water Charges @ 1% except on A i.e on (7,301.24 - 1,950.08 =) 5,351.16				53.51
	TOTAL				7,354.75
	Add CPOH @ 15% except on A i.e on (7,354.75 - 1,950.08 =) 5,404.67				810.70
	Cost of 1 cum				8,165.45
	Say				8,165.45

6.21 Tile brick masonry with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in gauged arch work in superstructure above plinth and upto floor five level in cement mortar 1:4 (1 cement : 4 coarse sand) including centering and shuttering complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1984	MATERIAL: Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	791.00	3,100.00	2,452.10
2207	Carriage of brick tiles	1000 Nos	791.00	140.16	110.86
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.35	3,485.40	1,219.89
9999	Sundries and shuttering	L.S.	5.46	1.49	8.14
	Centering and shuttering				
	Area same as in item no 6.9				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	866.70	1,950.08(A)
9999	Scaffolding	L.S.	18.85	1.49	28.09
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.50	301.00	451.50
0124	Mason (brick layer) 2nd class	day	1.50	273.00	409.50
0115	Coolie	day	5.33	247.00	1,316.51
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour for lifting of material (Above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				8,277.78
	Add Water Charges @ 1% except on A i.e on (8,277.78 - 1,950.08 =) 6,327.70				63.28
	TOTAL				8,341.06
	Add CPOH @ 15% except on A i.e on (8,341.06 - 1,950.08 =) 6,390.98				958.65
	Cost of 1 cum				9,299.71
	Say				9,299.70

6.22 Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
1984	22.9cmx 11.2cmx5cm Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	377.00	3,100.00	1,168.70
2207	Carriage of brick tiles	1000 Nos	377.00	140.16	52.84
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.15	4,145.55	621.83
9999	Sundries and scaffolding	L.S.	8.06	1.49	12.01
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.94	301.00	282.94
0124	Mason (brick layer) 2nd class	day	0.94	273.00	256.62
0115	Coolie	day	1.88	247.00	464.36
0101	Bhisti	day	0.33	260.00	85.80
	Extra labour for lifting of material (Above floor two level upto floor five level)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				3,263.73
	Add Water Charges @ 1%				32.64
	TOTAL				3,296.37
	Add CPOH @ 15%				494.46
	Cost of 10 sqm				3,790.83
	Cost of 1 sqm				379.08
	Say				379.10

6.23 Honey-comb brick work 10/11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level upto floor V level with cement mortar 1:4 (1 cement : 4 coarse sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6.4.1	<i>Details of cost for 1sqm of Honey comb brick work</i> MATERIAL: Brick work with bricks of class designation 7.5 in cement mortar 1:4 (1 Cement: 4 Coarse sand) in superstructure 1 m x 1 x 0.143 m x 4.5/7.5 = 0.069 cum Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.069	4,067.85	280.68 (A)
9999	Extra for delay due to fine work	L.S.	20.67	1.49	30.80
	TOTAL				311.48
	Add Water Charges @ 1% except on A i.e on (311.48 - 280.68 =) 30.80				0.31
	TOTAL				311.79
	Add CPOH @ 15% except on A i.e on (311.79 - 280.68 =) 31.11				4.67
	Cost of 1 sqm				316.46
	Say				316.45

6.24 Extra for laying brick work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete. Note:- The quantity will be calculated by multiplying the depth measured from sub-soil water level upto the centre of gravity of brick work unnder sub-soil water with the quantity of brick work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0011	<i>Details of cost for 14 cum per 0.3m depth</i> Quantity of concrete = 14 cum. Pumping hours = 3 hrs. or 0.375 days Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	500.00	187.50
0114	Beldar	day	4.00	247.00	988.00
	TOTAL				1,175.50
	Add Water Charges @ 1%				11.76
	TOTAL				1,187.26
	Add CPOH @ 15%				178.09
	Cost of 4.2 cum				1,365.35
	cum/mtr depth				325.08
	Say				325.10

6.25 Extra for laying brick work in or under foul position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	301.00	6.02
0124	Mason (brick layer) 2nd class	day	0.02	273.00	5.46
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	0.15	247.00	37.05
	TOTAL				110.28
	Add Water Charges @ 1%				1.10
	TOTAL				111.38
	Add CPOH @ 15%				16.71
	Cost of 1 cum				128.09
	Say				128.10

6.26 Brick work with common burnt clay selected F.P.S (non modular) bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)

6.26.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
	For selection of bricks				
0114	Beldar	day	0.50	247.00	123.50
0123	Mason (brick layer) 1 st class	day	0.35	301.00	105.35
0124	Mason (brick layer) 2nd class	day	0.35	273.00	95.55
0115	Coolie	day	1.07	247.00	264.29
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				2,919.42
	Add Water Charges @ 1%				29.19
	TOTAL				2,948.61
	Add CPOH @ 15%				442.29
	Cost of 1 cum				3,390.90
	Say				3,390.90

6.26.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	494.00	2,900.00	1,432.60
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
	For selection of bricks in superstructure				
0114	Beldar	day	0.50	247.00	123.50
0123	Mason (brick layer) 1 st class	day	0.46	301.00	138.46
0124	Mason (brick layer) 2nd class	day	0.46	273.00	125.58
0115	Coolie	day	1.60	247.00	395.20
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,425.90
	Add Water Charges @ 1%				34.26
	TOTAL				3,460.16
	Add CPOH @ 15%				519.02
	Cost of 1 cum				3,979.18
	Say				3,979.20

6.27 Brick work with common burnt clay modular bricks of class designation 7.5 in exposed brick work including making horizontal and vertical grooves 10mm wide 12mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.27.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7900	Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	3,150.00	1,534.05
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				2,777.01
	Add Water Charges @ 1%				27.77
	TOTAL				2,804.78
	Add CPOH @ 15%				420.72
	Cost of 1 cum				3,225.50
	Say				3,225.50

6.27.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
7900	MATERIAL: Modular common burnt clay bricks of class designation 7.5	1000 Nos	487.00	3,150.00	1,534.05
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	301.00	132.44
0124	Mason (brick layer) 2nd class	day	0.44	273.00	120.12
0115	Coolie	day	1.43	247.00	353.21
0101	Bhisti	day	0.18	260.00	46.80
	Extra labour element required for lifting of (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,258.79
	Add Water Charges @ 1%				32.59
	TOTAL				3,291.38
	Add CPOH @ 15%				493.71
	Cost of 1 cum				3,785.09
	Say				3,785.10

6.28 Brick work with common burnt clay machine moulded modular bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.28.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.00	3,600.00	1,753.20
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement mortar 1:6(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				2,996.16
	Add Water Charges @ 1%				29.96
	TOTAL				3,026.12
	Add CPOH @ 15%				453.92
	Cost of 1 cum				3,480.04
	Say				3,480.05

6.28.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
1986	Common burnt clay modular bricks class designation 12.5	1000 Nos	487.00	3,600.00	1,753.20
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	301.00	132.44
0124	Mason (brick layer) 2nd class	day	0.44	273.00	120.12
0115	Coolie	day	1.43	247.00	353.21
0101	Bhisti	day	0.18	260.00	46.80
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,477.94
	Add Water Charges @ 1%				34.78
	TOTAL				3,512.72
	Add CPOH @ 15%				526.91
	Cost of 1 cum				4,039.63
	Say				4,039.65

6.29 Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand)

6.29.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	3,550.00	1,753.70
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement mortar 1:6,(1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	301.00	108.36
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0115	Coolie	day	1.37	247.00	338.39
0101	Bhisti	day	0.20	260.00	52.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,196.86
	Add Water Charges @ 1%				31.97
	TOTAL				3,228.83
	Add CPOH @ 15%				484.32
	Cost of 1 cum				3,713.15
	Say				3,713.15

6.29.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7903	Machine moulded common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	3,550.00	1,753.70
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	301.00	132.44
0124	Mason (brick layer) 2nd class	day	0.44	273.00	120.12
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,661.42
	Add Water Charges @ 1%				36.61
	TOTAL				3,698.03
	Add CPOH @ 15%				554.70
	Cost of 1 cum				4,252.73
	Say				4,252.75

6.30 Brick work with common burnt clay machine moulded perforated F.P.S. (non modular) bricks of class designation 12.5 conforming IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.30.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4,150.00	2,050.10
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement mortar 1:6 (1 cement: 6 coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	301.00	108.36
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0115	Coolie	day	1.37	247.00	338.39
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				3,493.26
	Add Water Charges @ 1%				34.93
	TOTAL				3,528.19
	Add CPOH @ 15%				529.23
	Cost of 1 cum				4,057.42
	Say				4,057.40

6.30.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7901	Machine moulded perforated common burnt clay FPS (non modular) bricks of class designation 12.5	1000 Nos	494.00	4,150.00	2,050.10
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,975.04
	Add Water Charges @ 1%				39.75
	TOTAL				4,014.79
	Add CPOH @ 15%				602.22
	Cost of 1 cum				4,617.01
	Say				4,617.00

6.31 Brick work with common burnt clay machine moulded perforated modular bricks of class designation 12.5 conforming to IS : 2222 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

6.31.1 From ground level upto plinth level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	3,800.00	1,850.60
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				3,093.56
	Add Water Charges @ 1%				30.94
	TOTAL				3,124.50
	Add CPOH @ 15%				468.67
	Cost of 1 cum				3,593.17
	Say				3,593.15

6.31.2 Above plinth level and upto floor V level

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7902	Machine moulded common burnt clay modular perforated bricks of class designation 12.5	1000 Nos	487.00	3,800.00	1,850.60
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
9999	Sundries including steel / wooden strips for making grooves	L.S.	16.38	1.49	24.41
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.44	301.00	132.44
0124	Mason (brick layer) 2nd class	day	0.44	273.00	120.12
0115	Coolie	day	1.43	247.00	353.21
0101	Bhisti	day	0.18	260.00	46.80
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				3,575.34
	Add Water Charges @ 1%				35.75
	TOTAL				3,611.09
	Add CPOH @ 15%				541.66
	Cost of 1 cum				4,152.75
	Say				4,152.75

6.32 Brick work with clay flyash F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor five level in :

6.32.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
7008	MATERIAL: F.P.S. (non modular) clay fly ash bricks class designation 7.5 Cement mortar 1: 4 (1 cement: 4 coarse sand)	1000 Nos	494.00	3,000.00	1,482.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3,485.40	871.35
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	8.97	1.49	13.37
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,531.68
	Add Water Charges @ 1%				35.32
	TOTAL				3,567.00
	Add CPOH @ 15%				535.05
	Cost of 1 cum				4,102.05
	Say				4,102.05

6.32.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
7008	MATERIAL: F.P.S. (non modular) clay fly ash bricks class designation 7.5 Cement mortar 1 : 6(1 cement: 6 coarse sand)	1000 Nos	494.00	3,000.00	1,482.00
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	8.97	1.49	13.37
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				
0115	Coolie	day	1.13	247.00	279.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,366.65
	Add Water Charges @ 1%				33.67
	TOTAL				3,400.32
	Add CPOH @ 15%				510.05
	Cost of 1 cum				3,910.37
	Say				3,910.35

6.34 Brick work with non modular fly ash lime bricks (FALG Bricks) conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :

6.34.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	487.00	3,300.00	1,607.10
	Cement mortar 1 : 4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5 =1.13)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,570.53
	Add Water Charges @ 1%				35.71
	TOTAL				3,606.24
	Add CPOH @ 15%				540.94
	Cost of 1 cum				4,147.18
	Say				4,147.20

6.34.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	487.00	3,300.00	1,607.10
	Cement.mortar 1:6 (1 cement: 6 coarse sand)				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75x1.5= 1.13)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,425.31
	Add Water Charges @ 1%				34.25
	TOTAL				3,459.56
	Add CPOH @ 15%				518.93
	Cost of 1 cum				3,978.49
	Say				3,978.50

6.35 Brick work with modular calcium silicate bricks machine moulded conforming to IS:4139, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :

6.35.1 Cement mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7738	Calcium Silicate Bricks machine moulded conforming to I.S. 4139	1000 Nos	487.00	3,600.00	1,753.20
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.7 x 1.5 = 1.13)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,716.63
	Add Water Charges @ 1%				37.17
	TOTAL				3,753.80
	Add CPOH @ 15%				563.07
	Cost of 1 cum				4,316.87
	Say				4,316.85

6.35.2 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
7738	MATERIAL: Calcium Silicate Bricks machine moulded conforming to I.S. 4139 Cement mortar 1:6 (1 cement: 6 coarse sand)	1000 Nos	487.00	3,600.00	1,753.20
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.22	2,825.30	621.57
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
9999	Scaffolding	L.S.	22.36	1.49	33.32
	Extra labour element required for lifting of materials above floor two level upto floor V level (0.75 x 1.5 = 1.13)				
0115	Coolie	day	1.13	247.00	279.11
	TOTAL				3,571.41
	Add Water Charges @ 1%				35.71
	TOTAL				3,607.12
	Add CPOH @ 15%				541.07
	Cost of 1 cum				4,148.19
	Say				4,148.20

6.36 Brick work with modular extruded burnt fly ash clay sewer bricks (Conforming to IS: 4885) in foundation and plinth :

6.36.1 Cement Mortar 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
7736	MATERIAL: Extruded burnt flyash clay sewer bricks conforming to I.S 4885 Cement mortar 1:4(1 cement: 4 coarse sand)	1000 Nos	487.00	3,900.00	1,899.30
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.33	301.00	99.33
0124	Mason (brick layer) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.18	260.00	46.80
	TOTAL				3,267.14
	Add Water Charges @ 1%				32.67
	TOTAL				3,299.81
	Add CPOH @ 15%				494.97
	Cost of 1 cum				3,794.78
	Say				3,794.80

6.37 Brick work with modular extruded burnt fly ash clay sewer bricks (conforming to IS : 4885) in arches in foundation and plinth in cement mortar 1:3 (1 cement : 3 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
7736	Extruded burnt flyash clay sewer bricks conforming to I.S 4885	1000 Nos	487.00	3,900.00	1,899.30
	Cement mortar 1: 3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.25	3,631.95	907.99
2201	Carriage of bricks	1000 Nos	487.00	233.60	113.76
9999	Sundries	L.S.	2.73	1.49	4.07
	Centering and shuttering				
5.9.9	Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	2.25	866.70	1,950.08(A)
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.42	301.00	126.42
0124	Mason (brick layer) 2nd class	day	0.42	273.00	114.66
0115	Coolie	day	1.86	247.00	459.42
0101	Bhisti	day	0.20	260.00	52.00
	TOTAL				5,627.70
	Add Water Charges @ 1% except on A i.e on (5,627.70 - 1,950.08 =) 3,677.62				36.78
	TOTAL				5,664.48
	Add CPOH @ 15% except on A i.e on (5,664.48 - 1,950.08 =) 3,714.40				557.16
	Cost of 1 cum				6,221.64
	Say				6,221.65

6.38 Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum.</i>				
	MATERIAL:				
8655	Autoclaved aerated cement (AAC) blocks	cum	1.00	2,025.00	2,025.00
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.15	3,485.40	522.81
	Carriage of AAC blocks as				
2208	Carriage of lime	cum	1.00	87.60	87.60
9999	Sundries	L.S.	2.73	1.49	4.07
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.36	301.00	108.36
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0115	Coolie	day	1.37	247.00	338.39
0101	Bhisti	day	0.20	260.00	52.00
	Reinforcement bars				
5.22.1	Rate as per Item Number 5.22.1 of SH: Reinforced cement concrete work	kilogram	13.20	56.75	749.10 (A)
	TOTAL				3,985.61
	Add Water Charges @ 1% except on A i.e				32.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	on (3,985.61 - 749.10 =) 3,236.51 TOTAL Add CPOH @ 15% except on A i.e on (4,017.98 - 749.10 =) 3,268.88 Cost of 1 cum Say				4,017.98 490.33 4,508.31 4,508.30

6.40 Providing and laying Gypsum panel partitions 100 mm thick with water proof Gypsum panels of size 666x500x100 mm, made of calcite phosphor Gypsum fixed with tongue and groove, jointed with bonding plaster as per manufacturers specifications in superstructure above plinth level up to floor V level. Gypsum blocks will have a minimum compressive strength of 9.3 kg/cm²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
8656	Gypsum panel 666 X 500 X 100 mm size	sqm	10.00	455.00	4,550.00
8657	Bonding plaster for Gypsum panel	kg	25.00	53.00	1,325.00
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				6,292.64
	Add Water Charges @ 1%				62.93
	TOTAL				6,355.57
	Add CPOH @ 15%				953.34
	Cost of 10 sqm				7,308.91
	Cost of 1 sqm				730.89
	Say				730.90

6.41 Extra for Gypsum panel partitions in superstructure above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm. per four floors</i>				
	Extra labour for lifting of materials above floor V level				
0115	Coolie	day	1.73	247.00	427.31
	TOTAL				427.31
	Add Water Charges @ 1%				4.27
	TOTAL				431.58
	Add CPOH @ 15%				64.74
	Cost of 10 sqm				496.32
	Cost of 1 sqm				49.63
	Say				49.65

6.42 Brick work with mechanized autoclaved flyash sand lime non modular bricks conforming to IS: 12894 of class designation 10 in superstructure above plinth level up to floor V level in :

6.42.1 Cement mortar 1:4 (1 cement :4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
8658	MATERIAL: Mechanised Autoclaved fly ash sand lime non modular bricks Cement mortar 1:4 (1 cement: 4 coarse sand)	1000 Nos	494.00	4,300.00	2,124.20
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.25	3,485.40	871.35
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
	Extra Labour element required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				4,193.83
	Add Water Charges @ 1%				41.94
	TOTAL				4,235.77
	Add CPOH @ 15%				635.37
	Cost of 1 cum				4,871.14
	Say				4,871.15

6.42.2 Cement mortar 1:6 (1 cement :6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cum</i>				
8658	MATERIAL: Mechanised Autoclaved fly ash sand lime non modular bricks Cement mortar 1:6 (1 cement: 6 coarse sand)	1000 Nos	494.00	4,300.00	2,124.20
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.25	2,825.30	706.32
2201	Carriage of bricks	1000 Nos	494.00	233.60	115.40
9999	Sundries	L.S.	2.73	1.49	4.07
0123	Mason (brick layer) 1 st class	day	0.47	301.00	141.47
0124	Mason (brick layer) 2nd class	day	0.47	273.00	128.31
0115	Coolie	day	1.80	247.00	444.60
0101	Bhisti	day	0.20	260.00	52.00
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries	L.S.	22.36	1.49	33.32
	TOTAL				4,028.80
	Add Water Charges @ 1%				40.29
	TOTAL				4,069.09
	Add CPOH @ 15%				610.36
	Cost of 1 cum				4,679.45
	Say				4,679.45

6.44 Brick edging 7 cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10m length</i> Excavation and disposal of surplus earth 2nd class bricks = 42 Nos. + Add wastage @ 10% = 4.2 Nos. = 46.2 Nos. Say 46.00 Nos	L.S.	2.73	1.49	4.07
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	46.00	2,900.00	133.40
2201	Carriage of bricks Cement mortat 1:4 (Rate as per item no. 3.4)	1000 Nos	46.00	233.60	10.75
3.4	Rate as per Item Number 3.4 of SH: Mortars LABOUR:	cum	0.0036	2,971.80	10.70
0155	Mason (average)	day	0.10	287.00	28.70
0114	Beldar	day	0.10	247.00	24.70
0101	Bhisti	day	0.03	260.00	7.80
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				224.19
	Add Water Charges @ 1%				2.24
	TOTAL				226.43
	Add CPOH @ 15%				33.96
	Cost of 10 metre				260.39
	Cost of 1 metre				26.04
	Say				26.05

6.45 Half brick masonry with non modular fly ash lime Gypsum bricks (FALG bricks) of class designation 10, conforming to IS : 12894, in super structure above plinth and upto floor V level.

6.45.1 Cement mortar 1 : 3 (1 cement : 3 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	565.00	3,300.00	1,864.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4,145.55	1,160.75
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
	Extra labour element required for lifting of material (above floor two level upto floor five level)				
0115	Coolie	day	1.29	247.00	318.63

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4,516.40
	Add Water Charges @ 1%				45.16
	TOTAL				4,561.56
	Add CPOH @ 15%				684.23
	Cost of 10 sqm				5,245.79
	Cost of 1 sqm				524.58
	Say				524.60

6.45.2 Cement mortar 1 : 4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7737	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894	1000 Nos	565.00	3,300.00	1,864.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3,485.40	975.91
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
	Extra labour element required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				4,331.56
	Add Water Charges @ 1%				43.32
	TOTAL				4,374.88
	Add CPOH @ 15%				656.23
	Cost of 10 sqm				5,031.11
	Cost of 1 sqm				503.11
	Say				503.10

6.46 Half brick masonry with non modular mechanised auto claved fly ash sand lime bricks of class designation 10, conforming to IS : 12894, in super structure above plinth and up to floor V level.

6.46.1 Cement mortar 1 : 3 (1 cement : 3 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
8658	Mechanised Autoclaved fly ash sand lime non modular bricks	1000 Nos	565.00	4,300.00	2,429.50
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.28	4,145.55	1,160.75
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
	Extra labour element required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				5,081.40
	Add Water Charges @ 1%				50.81
	TOTAL				5,132.21
	Add CPOH @ 15%				769.83
	Cost of 10 sqm				5,902.04
	Cost of 1 sqm				590.20
	Say				590.20

6.46.2 Cement mortar 1 : 4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
8658	Mechanised Autoclaved fly ash sand lime non modular bricks	1000 Nos	565.00	4,300.00	2,429.50
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.28	3,485.40	975.91
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
9999	Sundries & scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	0.70	260.00	182.00
	Extra labour element required for lifting of material (above floor two level upto floor five level.)				
0115	Coolie	day	1.29	247.00	318.63
	TOTAL				4,896.56
	Add Water Charges @ 1%				48.97
	TOTAL				4,945.53
	Add CPOH @ 15%				741.83
	Cost of 10 sqm				5,687.36
	Cost of 1 sqm				568.74
	Say				568.75

SUB HEAD : 7.0
STONE WORK

7.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :

7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1157	Stone for masonry work	cum	1.00	675.00	675.00
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone 7.00x24cmx24cmx39cm = 0.16 cum 1.00cum. + 0.16 cum. = 1.16 cum Cement mortar 1:6 (1 cement: 6 Coarse sand)	cum	1.16	103.06	119.55
3.11	Rate as per Item Number 3.11 of SH: Mortars LABOUR:	cum	0.33	2,825.30	932.35
0125	Mason (for plain stone work) 2nd class	day	1.07	273.00	292.11
0114	Beldar	day	1.07	247.00	264.29
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40
9999	Cement concrete 1:6:12	L.S.	45.76	1.49	68.18
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				2,633.84
	Add Water Charges @ 1%				26.34
	TOTAL				2,660.18
	Add CPOH @ 15%				399.03
	Cost of 1 cum				3,059.21
	Say				3,059.20

7.2 Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like.

7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
1157	Stone for masonry work	cum	1.00	675.00	675.00
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x 24 cm x 39 cm = 0.16 cum 1.00 cum. + 0.16 cum = 1.16 cum Cement mortar 1 : 6 (1 cement : 6 coarse sand)	cum	1.16	103.06	119.55
3.11	Rate as per Item Number 3.11 of SH: Mortars LABOUR:	cum	0.33	2,825.30	932.35
0125	Mason (for plain stone work) 2nd class	day	1.34	273.00	365.82
0114	Beldar	day	1.45	247.00	358.15
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Cement concrete 1:6:12 Extra Labour for lifting of material upto floor five level.	L.S.	56.55	1.49	84.26
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries, scaffolding etc.	L.S.	15.21	1.49	22.66
	TOTAL				3,112.67
	Add Water Charges @ 1%				31.13
	TOTAL				3,143.80
	Add CPOH @ 15%				471.57
	Cost of 1 cum				3,615.37
	Say				3,615.35

7.4 Extra for random rubble masonry with hard stone in :

7.4.1 Square or rectangular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.58	273.00	158.34
0115	Coolie	day	0.27	247.00	66.69
	TOTAL				225.03
	Add Water Charges @ 1%				2.25
	TOTAL				227.28
	Add CPOH @ 15%				34.09
	Cost of 1 cum				261.37
	Say				261.35

7.4.2 Circular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1157	Stone for masonry work	cum	0.29	675.00	195.75
2215	Carriage of Soling stone & masonry stone	cum	0.29	103.06	29.89
	LABOUR:				
	Labour for cutting and dressing stones				
0125	Mason (for plain stone work) 2nd class	day	1.42	273.00	387.66
0115	Coolie	day	0.35	247.00	86.45
	TOTAL				699.75
	Add Water Charges @ 1%				7.00
	TOTAL				706.75
	Add CPOH @ 15%				106.01
	Cost of 1 cum				812.76
	Say				812.75

7.5 Extra for random rubble masonry with hard stone curved on plan for a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1157	Stone for masonry work	cum	0.10	675.00	67.50
2215	Carriage of Soling stone & masonry stone	cum	0.10	103.06	10.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0125	LABOUR: Labour for cutting and dressing stones	day	0.27	273.00	73.71
0115	Mason (for plain stone work) 2nd class	day	0.53	247.00	130.91
	Coolie				
	TOTAL				282.43
	Add Water Charges @ 1%				2.82
	TOTAL				285.25
	Add CPOH @ 15%				42.79
	Cost of 1 cum				328.04
	Say				328.05

7.6 Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :

7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2,825.30	847.59
1157	Stone for masonry work	cum	1.21	675.00	816.75
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00
2215	Carriage of Soling stone & masonry stone	cum	1.37	103.06	141.19
	7.00x24cmx24cmx39cm = 0.16 cum. 1.21+0.16=1.37 cum				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.12	273.00	578.76
0114	Beldar	day	1.24	247.00	306.28
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,986.48
	Add Water Charges @ 1%				29.86
	TOTAL				3,016.34
	Add CPOH @ 15%				452.45
	Cost of 1 cum				3,468.79
	Say				3,468.80

7.7 Coursed rubble masonry (second sort) with hard stone in foundation & plinth with :

7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2,825.30	847.59
1157	Stone for masonry work	cum	1.10	675.00	742.50
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00
	CARRIAGE:				
2215	Carriage of Soling stone & masonry stone	cum	1.26	103.06	129.86
	7.00x24cmx24cmx39cm = 0.16 cum. 1.10+0.16 cum = 1.26 cum				
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0125	Mason (for plain stone work) 2nd class	day	1.76	273.00	480.48
0114	Beldar	day	1.24	247.00	306.28
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				2,802.62
	Add Water Charges @ 1%				28.03
	TOTAL				2,830.65
	Add CPOH @ 15%				424.60
	Cost of 1 cum				3,255.25
	Say				3,255.25

7.8 Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.

7.8.1 Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2,825.30	847.59
1157	Stone for masonry work	cum	1.21	675.00	816.75
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00
2215	Carriage of Soling stone & masonry stone	cum	1.37	103.06	141.19
	7.00 x 24 cm x24 cm x 39 cm = 0.16 cum.				
	1.21 cum. + 0.16 cum = 1.37 cum				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.38	273.00	649.74
0114	Beldar	day	1.59	247.00	392.73
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries, scaffolding etc.	L.S.	37.70	1.49	56.17
	TOTAL				3,459.05
	Add Water Charges @ 1%				34.59
	TOTAL				3,493.64
	Add CPOH @ 15%				524.05
	Cost of 1 cum				4,017.69
	Say				4,017.70

7.8.2 Masonry work (second sort), in cement mortar 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	MATERIAL:				
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.30	2,825.30	847.59
1157	Stone for masonry work	cum	1.10	675.00	742.50
1154	Through and bond stone	100 nos	7.00	1,100.00	77.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2215	Carriage of Soling stone & masonry stone 7.00 x 24 cm x 24 cm x 39 cm = 0.16 cum. 1.10 cum. + 0.16 cum = 1.26 cum LABOUR:	cum	1.26	103.06	129.86
0125	Mason (for plain stone work) 2nd class	day	2.02	273.00	551.46
0114	Beldar	day	1.59	247.00	392.73
0115	Coolie	day	0.71	247.00	175.37
0101	Bhisti	day	0.09	260.00	23.40
	Extra labour for lifting of material upto floor five level.				
0115	Coolie	day	1.13	247.00	279.11
9999	Sundries, scaffolding etc.	L.S.	37.70	1.49	56.17
	TOTAL				3,275.19
	Add Water Charges @ 1%				32.75
	TOTAL				3,307.94
	Add CPOH @ 15%				496.19
	Cost of 1 cum				3,804.13
	Say				3,804.15

7.10 Extra for coursed rubble masonry with hard stone (first or second sort) in :

7.10.1 Square or rectangular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i> LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.67	273.00	182.91
0115	Coolie	day	0.27	247.00	66.69
	TOTAL				249.60
	Add Water Charges @ 1%				2.50
	TOTAL				252.10
	Add CPOH @ 15%				37.82
	Cost of 1 cum				289.92
	Say				289.90

7.10.2 Circular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i> Extra				
1157	Stone for masonry work	cum	0.32	675.00	216.00
2215	Carriage of Soling stone & masonry stone	cum	0.32	103.06	32.98
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	1.67	273.00	455.91
0115	Coolie	day	0.35	247.00	86.45
	TOTAL				791.34
	Add Water Charges @ 1%				7.91
	TOTAL				799.25
	Add CPOH @ 15%				119.89
	Cost of 1 cum				919.14
	Say				919.15

7.11 Extra for coursed rubble masonry with hard stone (first or second sort) curved on plan for a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
1157	Stone for masonry work	cum	0.11	675.00	74.25
2215	Carriage of Soling stone & masonry stone	cum	0.11	103.06	11.34
	LABOUR:				
	Labour for cutting and dressing				
0125	Mason (for plain stone work) 2nd class	day	0.33	273.00	90.09
0115	Coolie	day	0.53	247.00	130.91
	TOTAL				306.59
	Add Water Charges @ 1%				3.07
	TOTAL				309.66
	Add CPOH @ 15%				46.45
	Cost of 1 cum				356.11
	Say				356.10

7.12 Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:

7.12.1 One face dressed

7.12.1.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
	Red sand stone				
	Finished work = 10 cu dm.+				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
1160	Red sand stone block	10 cu dm	13.33	60.00	79.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t	tonne	0.031	77.87	2.41
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	day	0.015	247.00	3.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	273.00	24.02
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				191.86
	Add Water Charges @ 1%				1.92
	TOTAL				193.78
	Add CPOH @ 15%				29.07
	Cost of 0.01 cum				222.85
	Cost of 1 cum				22,285.00
	Say				22,285.00

7.12.1.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.33	65.00	86.65
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level. 0.01x1.50=0.015	tonne	0.031	77.87	2.41
0115	Coolie	day	0.015	247.00	3.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	273.00	24.02
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				198.53
	Add Water Charges @ 1%				1.99
	TOTAL				200.52
	Add CPOH @ 15%				30.08
	Cost of 0.01 cum				230.60
	Cost of 1 cum				23,060.00
	Say				23,060.00

7.12.2 Both faces dressed

7.12.2.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.33	60.00	79.98
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t	tonne	0.031	77.87	2.41
	Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	247.00	3.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				245.44
	Add Water Charges @ 1%				2.45
	TOTAL				247.89
	Add CPOH @ 15%				37.18
	Cost of 0.01 cum				285.07
	Cost of 1 cum				28,507.00
	Say				28,507.00

7.12.2.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.33	65.00	86.65
	Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = 0.031 t	tonne	0.031	77.87	2.41

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Extra labour for lifting of material upto floor V level 0.01x1.50 = 0.015 Coolie Dressing charges LABOUR:	day	0.015	247.00	3.70
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				252.11
	Add Water Charges @ 1%				2.52
	TOTAL				254.63
	Add CPOH @ 15%				38.19
	Cost of 0.01 cum				292.82
	Cost of 1 cum				29,282.00
	Say				29,282.00

7.13 Stone work plain ashlar in arches in superstructure upto floor V level in cement mortar 1 : 3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.13.1 One face dressed

7.13.1.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1160	<i>Details of cost for 10 cu dm or 0.01 cum</i> MATERIAL: Red sand stone block Finished work = 10 cu dm.+ Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	60.00	79.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30 = 30.659 kg = tonne say 0.031 t Dressing charges LABOUR:	tonne	0.031	77.87	2.41
0125	Mason (for plain stone work) 2nd class	day	0.088	273.00	24.02
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	13.52	1.49	20.14
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				224.01
	Add Water Charges @ 1%				2.24
	TOTAL				226.25
	Add CPOH @ 15%				33.94
	Cost of 0.01 cum				260.19
	Cost of 1 cum				26,019.00
	Say				26,019.00

7.13.1.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.33	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	77.87	2.41
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.088	273.00	24.02
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	13.52	1.49	20.14
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				230.68
	Add Water Charges @ 1%				2.31
	TOTAL				232.99
	Add CPOH @ 15%				34.95
	Cost of 0.01 cum				267.94
	Cost of 1 cum				26,794.00
	Say				26,794.00

7.13.2 Both faces dressed

7.13.2.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1160	<i>Details of cost for 10 cu dm or 0.01 cum</i> MATERIAL: Red sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	60.00	79.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges	tonne	0.031	77.87	2.41
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	13.52	1.49	20.14
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				277.59
	Add Water Charges @ 1%				2.78
	TOTAL				280.37
	Add CPOH @ 15%				42.06
	Cost of 0.01 cum				322.43
	Cost of 1 cum				32,243.00
	Say				32,243.00

7.13.2.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1161	<i>Details of cost for 10 cu dm or 0.01 cum</i> MATERIAL: White sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges LABOUR:	tonne	0.031	77.87	2.41
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	13.52	1.49	20.14
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				284.26
	Add Water Charges @ 1%				2.84
	TOTAL				287.10
	Add CPOH @ 15%				43.07
	Cost of 0.01 cum				330.17
	Cost of 1 cum				33,017.00
	Say				33,017.00

7.14 Stone work plain ashlar in domes, in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.14.1 One face dressed

7.14.1.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cu dm	13.33	60.00	79.98
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	77.87	2.41
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1st class	day	0.006	301.00	1.81
0126	Mason (for ornamental stone work) 1 st class	day	0.176	301.00	52.98
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	33.15	1.49	49.39
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level				
	(0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				330.27
	Add Water Charges @ 1%				3.30
	TOTAL				333.57
	Add CPOH @ 15%				50.04
	Cost of 0.01 cum				383.61
	Cost of 1 cum				38,361.00
	Say				38,361.00

7.14.1.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
1161	MATERIAL: White sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges	tonne	0.031	77.87	2.41
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.176	273.00	48.05
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0126	Mason (for ornamental stone work) 1 st class	day	0.176	301.00	52.98
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	33.15	1.49	49.39
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				336.94
	Add Water Charges @ 1%				3.37
	TOTAL				340.31
	Add CPOH @ 15%				51.05
	Cost of 0.01 cum				391.36
	Cost of 1 cum				39,136.00
	Say				39,136.00

7.14.2 Both faces dressed

7.14.2.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
1160	MATERIAL: Red sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	60.00	79.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges LABOUR:	tonne	0.031	77.87	2.41
0125	Mason (for plain stone work) 2nd class	day	0.352	273.00	96.10
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0126	Mason (for ornamental stone work) 1 st class	day	0.352	301.00	105.95
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	33.15	1.49	49.39
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				460.84
	Add Water Charges @ 1%				4.61
	TOTAL				465.45
	Add CPOH @ 15%				69.82
	Cost of 0.01 cum				535.27
	Cost of 1 cum				53,527.00
	Say				53,527.00

7.14.2.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1161	<i>Details of cost for 10 cudm or 0.01 cum</i> MATERIAL: White sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t Dressing charges LABOUR:	tonne	0.031	77.87	2.41
0125	Mason (for plain stone work) 2nd class	day	0.352	273.00	96.10
0102	Blacksmith 1 st class	day	0.012	301.00	3.61

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0126	Mason (for ornamental stone work) 1 st class	day	0.352	301.00	105.95
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
9999	Centering and shuttering	L.S.	33.15	1.49	49.39
9999	Extra for using white cement	L.S.	8.06	1.49	12.01
	Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				467.51
	Add Water Charges @ 1%				4.68
	TOTAL				472.19
	Add CPOH @ 15%				70.83
	Cost of 0.01 cum				543.02
	Cost of 1 cum				54,302.00
	Say				54,302.00

7.15 Stone work ashlar punched (ordinary) in superstructure upto floor five level in cement mortar 1:6 (1 white cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.15.1 One face punched

7.15.1.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum</i>				
	MATERIAL:				
1160	Red sand stone block	10 cudm	13.33	60.00	79.98
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	77.87	2.41
	@ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	273.00	16.11
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	Extra labour for lifting of materials upto floor V level= 0.01x1.50 = 0.015				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				183.95
	Add Water Charges @ 1%				1.84
	TOTAL				185.79
	Add CPOH @ 15%				27.87
	Cost of 0.01 cum				213.66
	Cost of 1 cum				21,366.00
	Say				21,366.00

7.15.1.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cu dm or 0.01 cum</i>				
	MATERIAL:				
1161	White sand stone block	10 cu dm	13.33	65.00	86.65
	Finished work = 10 cu dm.				
	Add wastage @ 33.3% = 3.33 cu dm.				
	Total = 13.33 cu dm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.031	77.87	2.41
	@ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t				
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.059	273.00	16.11
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mortar for laying and pointing Extra labour for lifting of material upto floor five level (0.01x1.5=0.015)	L.S.	8.06	1.49	12.01
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				190.62
	Add Water Charges @ 1%				1.91
	TOTAL				192.53
	Add CPOH @ 15%				28.88
	Cost of 0.01 cum				221.41
	Cost of 1 cum				22,141.00
	Say				22,141.00

7.15.2 Both faced punched

7.15.2.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1160	<i>Details of cost for 10 cudm or 0.01 cum</i> MATERIAL: Red sand stone block Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm	10 cudm	13.33	60.00	79.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t	tonne	0.031	77.87	2.41
0115	Extra labour for lifting of materials upto floor five level 0.01x1.50=0.015 Coolie	day	0.015	247.00	3.70
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.118	273.00	32.21
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				229.60
	Add Water Charges @ 1%				2.30
	TOTAL				231.90
	Add CPOH @ 15%				34.78
	Cost of 0.01 cum				266.68
	Cost of 1 cum				26,668.00
	Say				26,668.00

7.15.2.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1161	<i>Details of cost for 10 cu dm or 0.01 cum</i> MATERIAL: White sand stone block Finished work = 10 cu dm. Add wastage @ 33.3% = 3.33 cu dm. Total = 13.33 cu dm	10 cu dm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm = 13.33x2.30=30.659 kg = 0.031 t Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015	tonne	0.031	77.87	2.41
0115	Coolie Dressing charges LABOUR:	day	0.015	247.00	3.70
0125	Mason (for plain stone work) 2nd class	day	0.118	273.00	32.21
0102	Blacksmith 1 st class	day	0.012	301.00	3.61
0114	Beldar	day	0.088	247.00	21.74
0115	Coolie	day	0.044	247.00	10.87
0100	Bandhani	day	0.088	260.00	22.88
	Fixing charges LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	TOTAL				236.27
	Add Water Charges @ 1%				2.36
	TOTAL				238.63
	Add CPOH @ 15%				35.79
	Cost of 0.01 cum				274.42
	Cost of 1 cum				27,442.00
	Say				27,442.00

7.16 Extra for stone work, Random Rubble/Coursed Rubble masonry/Ashlar Masonry above floor V level for every four floors or part thereof.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	<i>Details of cost for 10 cu dm or 0.01 cum above floor V level</i> Labour required for lifting of material (above floor five level for each additional four floors) or part thereof Extra labour for lifting of materials above floor V level (0.01 x 2.00 = 0.020) Beldar	day	0.02	247.00	4.94
	TOTAL				4.94
	Add Water Charges @ 1%				0.05
	TOTAL				4.99
	Add CPOH @ 15%				0.75
	Cost of 0.01 cum				5.74
	Cost of 1 cum				574.00
	Say				574.00

7.17 Extra for plain ashlar or ashlar punched in:

7.17.1 Square or rectangular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of Cost for 10 cudm or 0.01 cum</i> Labour and materials TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 0.01 cum Cost of 1 cum Say	L.S.	8.97	1.49	13.37 13.37 0.13 13.50 2.02 15.52 1,552.00 1,552.00

7.18 Extra for stone work; plain ashlar or ashlar punched curved on plan with a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10 cudm or 0.01 cum</i> Labour and materials TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 0.01 cum Cost of 1 cum Say	L.S.	6.24	1.49	9.30 9.30 0.09 9.39 1.41 10.80 1,080.00 1,080.00

7.19 Extra for additional cost of centering for arches exceeding 6 m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 33.31 sqm</i> Centering and shuttering for arches and carved surface exceeding 6m in span (an average of 8m) Radius R = 5m $2R-2=4+4 \tan^{-1}(4/3)=53.28^\circ$ $2 \times 53.28^\circ = 106^\circ$ Surface area $= 2 \times 22/7 \times 5 \times 3.6 \times 106/360 = 33.31 \text{sqm.}$ Arc=9.25m MATERIAL: Tie- $2 \times 8 \times 0.18 \times 0.05 = 0.144 \text{cum}$ Struts- $2 \times 2.5 \times 0.1 \times 0.1 = 0.050 \text{cum.}$ Struts- $2 \times 1.77 \times 0.1 \times 0.1 = 0.035 \text{cum.}$ Ribs- $6 \times 1.54 \times 0.23 \times 0.1 = 0.213 \text{cum.}$ Struts- $2 \times 1.72 \times 0.1 \times 0.1 = 0.034 \text{cum.}$ Total=0.476cum. For four such frames = $0.476 \times 4 = 1.904 \text{ cum.}$ Laggings- $75 \times 3.6 \times 0.125 \times 0.075 = 2.531 \text{ cum.}$ Tie- $2 \times 3.6 \times 0.225 \times 0.038 = 0.062 \text{cum.}$ Brace- $3 \times 2 \times 2.14 \times 0.225 \times 0.038 = 0.110$ Brace- $3 \times 4 \times 3.8 \times 0.225 \times 0.038 = 0.390$ Sleepers- $4 \times 3.6 \times 0.20 \times 0.15 = 0.432$ Sleepers- $2 \times 4 \times 3.6 \times 0.175 \times 0.075 = 0.378$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1197 2204	Vertical post-4x4x3.6x0.15x0.15=1.296 Total =7.103cum. - Qty taken as 1/8th of qty for cost of using once = 7.103/8 = 0.8879 cum Second class kail wood in scantling Carriage of timber Fittings: 3 way straps 50mmx10mm = 32 Nos. 32 no. @0.50cm each = 16m Straps-50mmx10mm = 8 Nos. @0.25cm each = 2m Total = 18m 18m, wt @ 3.9kg/m = 70.2 kg. = 0.702q Qty taken 1/8th of qty for cost using once = 0.702/8 = 0.08775 Qtl	10 cudm cum	887.90 0.8879	250.00 100.11	22,197.50 88.89
1225	Mild steel flat strap fitting Bolts 160 Nos. 254 mm long 16mm dia.- 160x.254xl .58=64.21 kg=0.64q. Qty taken 1/8th of qty for cost using once = 0.64/8 = 0.08 Qtl	quintal	0.0878	3,950.00	346.81
1034	Bolts and nuts up to 300 mm in length Carriage of steel = 0.1342t Qty taken 1/8th of qty for cost using once = 0.1342/8 = 0.01677 t	quintal	0.08	5,400.00	432.00
2302	Carriage of G.I.sheet and accessories LABOUR:	tonne	0.0168	77.87	1.31
0112	Carpenter 2nd class	day	28.00	273.00	7,644.00
0114	Beldar	day	24.00	247.00	5,928.00
9999	Sundries	L.S.	134.55	1.49	200.48
5.9.9	Less Cost of shuttering etc. for an arch exceeding 6 m span i.e. for an average of 8 m span Rate as per Item Number 5.9.9 of SH: Reinforced cement concrete work	sqm	-33.31	866.70	-28,869.78(A)
	TOTAL				7,969.21
	Add Water Charges @ 1% except on A i.e on (7,969.21 - -28,869.78 =) 36,838.99				368.39
	TOTAL				8,337.60
	Add CPOH @ 15% except on A i.e on (8,337.60 - -28,869.78 =) 37,207.38				5,581.11
	Cost of 33.31 sqm				13,918.71
	Cost of 1 sqm				417.85
	Say				417.85

7.20 Stone work ashlar sunk or moulded or sunk and moulded upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :

7.20.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 cudm or 0.01 cum MATERIAL: Finished work = 10 cudm. Add wastage @ 33.3% = 3.33 cudm. Total = 13.33 cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1160	Red sand stone block	10 cudm	13.33	60.00	79.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t	tonne	0.031	77.87	2.41
9999	Extra for using white cement Dressing charges LABOUR:	L.S.	8.06	1.49	12.01
0125	Mason (for plain stone work) 2nd class	day	0.291	273.00	79.44
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing Extra labour for lifting of materials upto floor V level 0.01x1.50 = 0.015	L.S.	8.06	1.49	12.01
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				259.29
	Add Water Charges @ 1%				2.59
	TOTAL				261.88
	Add CPOH @ 15%				39.28
	Cost of 0.01 cum				301.16
	Cost of 1 cum				30,116.00
	Say				30,116.00

7.20.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cudm or 0.01 cum</i>				
	MATERIAL:				
	Finished work = 10 cudm.				
	Add wastage @ 33.3% = 3.33 cudm.				
	Total = 13.33 cudm				
1161	White sand stone block	10 cudm	13.33	65.00	86.65
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm = 13.33x2.30=30.659 kg = 0.031 t	tonne	0.031	77.87	2.41
9999	Extra for using white cement Dressing charges LABOUR:	L.S.	8.06	1.49	12.01
0125	Mason (for plain stone work) 2nd class	day	0.291	273.00	79.44
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.044	247.00	10.87
0115	Coolie	day	0.022	247.00	5.43

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0100	Bandhani	day	0.044	260.00	11.44
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.044	273.00	12.01
0102	Blacksmith 1 st class	day	0.006	301.00	1.81
0114	Beldar	day	0.022	247.00	5.43
0115	Coolie	day	0.022	247.00	5.43
0100	Bandhani	day	0.022	260.00	5.72
0101	Bhisti	day	0.022	260.00	5.72
9999	Scaffolding	L.S.	2.73	1.49	4.07
9999	Mortar for laying and pointing	L.S.	8.06	1.49	12.01
	Extra labour for lifting of materials upto floor V level				
	0.01x1.50 = 0.015				
0115	Coolie	day	0.015	247.00	3.70
	TOTAL				265.96
	Add Water Charges @ 1%				2.66
	TOTAL				268.62
	Add CPOH @ 15%				40.29
	Cost of 0.01 cum				308.91
	Cost of 1 cum				30,891.00
	Say				30,891.00

7.21 Extra for stone work ashlar sunk or moulded or sunk and moulded or carved in :

7.21.1 Triangular or Square or rectangular pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Details of cost for 10 cudm or 0.01 cum Labour	L.S.	11.70	1.49	17.43
	TOTAL				17.43
	Add Water Charges @ 1%				0.17
	TOTAL				17.60
	Add CPOH @ 15%				2.64
	Cost of 0.01 cum				20.24
	Cost of 1 cum				2,024.00
	Say				2,024.00

7.21.2 Circular or polygonal pillars

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Details of cost for 10 cudm or 0.01 cum Labour	L.S.	33.15	1.49	49.39
	TOTAL				49.39
	Add Water Charges @ 1%				0.49
	TOTAL				49.88
	Add CPOH @ 15%				7.48
	Cost of 0.01 cum				57.36
	Cost of 1 cum				5,736.00
	Say				5,736.00

7.22 Extra for stone work ashlar sunk or moulded in cornices.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a cornice 30 cm long 60cm deep and 15cm projection</i>				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	0.75	247.00	185.25
	TOTAL				321.75
	Add Water Charges @ 1%				3.22
	TOTAL				324.97
	Add CPOH @ 15%				48.75
	Cost of 30cm long 60cm deep and 15cm girth				373.72
	Cost per metre per cm girth				16.61
	Say				16.60

7.23 Stone work (machine cut edges) for wall lining etc.(veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :

7.23.1 Red sand stone - Exposed face fine dressed with rough backing.

7.23.1.1 70 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% = 23.33 cu dm				
	Total = 93.33 cu dm				
1160	Red sand stone block	10 cu dm	93.33	60.00	559.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	77.87	16.74
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing				
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,735.29
	Add Water Charges @ 1%				17.35
	TOTAL				1,752.64
	Add CPOH @ 15%				262.90
	Cost of 1 sqm				2,015.54
	Say				2,015.55

7.23.1.2 60 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Finished work = 60 cu dm				
	Add wastage @ 33.3% = 20 cu dm				
	Total = 80 cu dm				
1160	Red sand stone block	10 cu dm	80.00	60.00	480.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	77.87	14.33
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing				
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,652.90
	Add Water Charges @ 1%				16.53
	TOTAL				1,669.43
	Add CPOH @ 15%				250.41
	Cost of 1 sqm				1,919.84
	Say				1,919.85

7.23.1.3 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1160	Red sand stone block	10 cudm	66.70	60.00	400.20
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	77.87	11.91
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,570.68
	Add Water Charges @ 1%				15.71
	TOTAL				1,586.39
	Add CPOH @ 15%				237.96
	Cost of 1 sqm				1,824.35
	Say				1,824.35

7.23.1.4 - 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1160	Red sand stone block	10 cudm	53.33	60.00	319.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	77.87	9.58
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,488.13
	Add Water Charges @ 1%				14.88
	TOTAL				1,503.01
	Add CPOH @ 15%				225.45
	Cost of 1 sqm				1,728.46
	Say				1,728.45

7.23.1.5 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1160	Red sand stone block	10 cudm	39.99	60.00	239.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	77.87	7.16
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,405.67
	Add Water Charges @ 1%				14.06
	TOTAL				1,419.73
	Add CPOH @ 15%				212.96
	Cost of 1 sqm				1,632.69
	Say				1,632.70

7.23.2 Red sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.2.1 70 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% = 23.33 cu dm				
	Total = 93.33 cu dm				
1160	Red sand stone block	10 cu dm	93.33	60.00	559.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	77.87	16.74
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,254.71
	Add Water Charges @ 1%				22.55
	TOTAL				2,277.26
	Add CPOH @ 15%				341.59
	Cost of 1 sqm				2,618.85
	Say				2,618.85

7.23.2.2 60 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 60 cu dm				
	Add wastage @ 33.3% = 20 cu dm				
	Total = 80 cu dm				
1160	Red sand stone block	10 cu dm	80.00	60.00	480.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	77.87	14.33
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,172.32
	Add Water Charges @ 1%				21.72
	TOTAL				2,194.04
	Add CPOH @ 15%				329.11
	Cost of 1 sqm				2,523.15
	Say				2,523.15

7.23.2.3 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cu dm				
	Add wastage @ 33.3% = 16.7 cu dm				
	Total = 66.7 cu dm				
1160	Red sand stone block	10 cu dm	66.70	60.00	400.20
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.153	77.87	11.91
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0101	Bhisti	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,090.10
	Add Water Charges @ 1%				20.90
	TOTAL				2,111.00
	Add CPOH @ 15%				316.65
	Cost of 1 sqm				2,427.65
	Say				2,427.65

7.23.2.4 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1160	Red sand stone block	10 cudm	53.33	60.00	319.98
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	77.87	9.58
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,007.55
	Add Water Charges @ 1%				20.08
	TOTAL				2,027.63
	Add CPOH @ 15%				304.14
	Cost of 1 sqm				2,331.77
	Say				2,331.75

7.23.2.5 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1160	Red sand stone block	10 cudm	39.99	60.00	239.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	77.87	7.16
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,925.09
	Add Water Charges @ 1%				19.25
	TOTAL				1,944.34
	Add CPOH @ 15%				291.65
	Cost of 1 sqm				2,235.99
	Say				2,236.00

7.23.3 White sand stone - Exposed face fine dressed with rough backing.

7.23.3.1 70 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cu dm. +				
	Add wastage @ 33.3% = 23.33 cu dm				
	Total = 93.33 cu dm				
1161	White sand stone block	10 cu dm	93.33	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.215	77.87	16.74
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,781.95
	Add Water Charges @ 1%				17.82
	TOTAL				1,799.77
	Add CPOH @ 15%				269.97
	Cost of 1 sqm				2,069.74
	Say				2,069.75

7.23.3.2 60 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 60 cu dm				
	Add wastage @ 33.3% = 20 cu dm				
	Total = 80 cu dm				
1161	White sand stone block	10 cu dm	80.00	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.184	77.87	14.33
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,692.90
	Add Water Charges @ 1%				16.93
	TOTAL				1,709.83
	Add CPOH @ 15%				256.47
	Cost of 1 sqm				1,966.30
	Say				1,966.30

7.23.3.3 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1161	White sand stone block	10 cudm	66.70	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	77.87	11.91
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,604.03
	Add Water Charges @ 1%				16.04
	TOTAL				1,620.07
	Add CPOH @ 15%				243.01
	Cost of 1 sqm				1,863.08
	Say				1,863.10

7.23.3.4 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cu dm				
	Add wastage @ 33.3% = 13.33 cu dm				
	Total = 53.33 cu dm				
1161	White sand stone block	10 cu dm	53.30	65.00	346.45
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cu dm	tonne	0.123	77.87	9.58
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,514.60
	Add Water Charges @ 1%				15.15
	TOTAL				1,529.75
	Add CPOH @ 15%				229.46
	Cost of 1 sqm				1,759.21
	Say				1,759.20

7.23.3.5 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1161	White sand stone block	10 cudm	39.99	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	77.87	7.16
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.35	273.00	368.55
0102	Blacksmith 1 st class	day	0.032	301.00	9.63
0114	Beldar	day	0.224	247.00	55.33
0115	Coolie	day	0.112	247.00	27.66
0100	Bandhani	day	0.224	260.00	58.24
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing				
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,425.67
	Add Water Charges @ 1%				14.26
	TOTAL				1,439.93
	Add CPOH @ 15%				215.99
	Cost of 1 sqm				1,655.92
	Say				1,655.90

7.23.4 White sand stone - Exposed face machine cut and table rubbed with rough backing.

7.23.4.1 70 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 70 cudm. +				
	Add wastage @ 33.3% = 23.33 cudm				
	Total = 93.33 cudm				
1161	White sand stone block	10 cudm	93.33	65.00	606.64
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	77.87	16.74
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,301.37
	Add Water Charges @ 1%				23.01
	TOTAL				2,324.38
	Add CPOH @ 15%				348.66
	Cost of 1 sqm				2,673.04
	Say				2,673.05

7.23.4.2 60 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 60 cudm				
	Add wastage @ 33.3% = 20 cudm				
	Total = 80 cudm				
1161	White sand stone block	10 cudm	80.00	65.00	520.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.184	77.87	14.33
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding	L.S.	19.76	1.49	29.44
3.8	Mortar for laying and pointing				
	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,212.32
	Add Water Charges @ 1%				22.12
	TOTAL				2,234.44
	Add CPOH @ 15%				335.17
	Cost of 1 sqm				2,569.61
	Say				2,569.60

7.23.4.3 - 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 50 cudm				
	Add wastage @ 33.3% = 16.7 cudm				
	Total = 66.7 cudm				
1161	White sand stone block	10 cudm	66.70	65.00	433.55
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.153	77.87	11.91
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,123.45
	Add Water Charges @ 1%				21.23
	TOTAL				2,144.68
	Add CPOH @ 15%				321.70
	Cost of 1 sqm				2,466.38
	Say				2,466.40

7.23.4.4 40 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 40 cudm				
	Add wastage @ 33.3% = 13.33 cudm				
	Total = 53.33 cudm				
1161	White sand stone block	10 cudm	53.30	65.00	346.45
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.123	77.87	9.58
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				2,034.02
	Add Water Charges @ 1%				20.34
	TOTAL				2,054.36
	Add CPOH @ 15%				308.15
	Cost of 1 sqm				2,362.51
	Say				2,362.50

7.23.4.5 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Finished work = 30 cudm				
	Add wastage @ 33.3% = 9.99cudm				
	Total = 39.99 cudm				
1161	White sand stone block	10 cudm	39.99	65.00	259.94
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.092	77.87	7.16
9999	Extra for using white cement Dressing charges	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	2.70	273.00	737.10
0102	Blacksmith 1 st class	day	0.064	301.00	19.26
0114	Beldar	day	0.448	247.00	110.66
0115	Coolie	day	0.224	247.00	55.33
0100	Bandhani	day	0.448	260.00	116.48
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.448	273.00	122.30
0100	Bandhani	day	0.336	260.00	87.36
0114	Beldar	day	0.336	247.00	82.99
0115	Coolie	day	0.336	247.00	82.99
0101	Bhisti	day	0.336	260.00	87.36
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	4.00	8.00	32.00
9999	Scaffolding	L.S.	19.76	1.49	29.44
	Mortar for laying and pointing				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.018	4,145.55	74.62
	TOTAL				1,945.09
	Add Water Charges @ 1%				19.45
	TOTAL				1,964.54
	Add CPOH @ 15%				294.68
	Cost of 1 sqm				2,259.22
	Say				2,259.20

7.24 Extra for stone work (veneer work) curved on plan with a mean radius not exceeding 6 m.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10 cudm</i> Labour and materials	L.S.	8.97	1.49	13.37
	TOTAL				13.37
	Add Water Charges @ 1%				0.13
	TOTAL				13.50
	Add CPOH @ 15%				2.02
	Cost of 0.01 cum				15.52
	Cost of 1 cum				1,552.00
	Say				1,552.00

7.25 Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases in stone and holes in walls wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cramp of 0.934kg</i> MATERIAL: Stainless steel cramp $10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$ $10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$ $= 13.3 \times 10^{-5}$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Less hole $10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5}$ $11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg}$ Add wastage @ 5% = 0.047 kg Total = 0.981 kg				
7339	Stainless steel cramp	kilogram	0.981	320.00	313.92
9999	Carriage	L.S.	3.90	1.49	5.81
	Cement mortar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	4,863.85	4.86
9999	Labour for fixing in position	L.S.	65.00	1.49	96.85
	TOTAL				421.44
	Add Water Charges @ 1%				4.21
	TOTAL				425.65
	Add CPOH @ 15%				63.85
	Cost of 0.934 kilogram				489.50
	Cost of 1 kilogram				524.09
	Say				524.10

7.26 Providing and fixing stone dowels 10x5x2.50 cm cut to double wedge shape as per design in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one dowel</i>				
	MATERIAL:				
9999	Cost of stone including carriage	L.S.	9.10	1.49	13.56
9999	Labour for dressing dowel cutting chase and fixing etc.	L.S.	5.33	1.49	7.94
	Cement mortar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	4,863.85	4.86
	TOTAL				26.36
	Add Water Charges @ 1%				0.26
	TOTAL				26.62
	Add CPOH @ 15%				3.99
	Cost of each				30.61
	Say				30.60

7.27 Providing and fixing copper pins 7.5 cm long 6mm diameter for securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand) including making the necessary chases.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one copper pin</i>				
	MATERIAL:				
0873	Copper pins 6 mm dia 7.5 cm long	each	1.00	10.00	10.00
9999	Labour for making pin to required shape and size, cutting chases in stone and fixing in position	L.S.	3.90	1.49	5.81

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.7	Cement mortar 1:2(1 cement: 2 coarse sand)	cum	0.001	4,863.85	4.86
9999	Rate as per Item Number 3.7 of SH: Mortars	L.S.	1.95	1.49	2.91
	Sundries including hire charges of hand cut machine etc				
	TOTAL				23.58
	Add Water Charges @ 1%				0.24
	TOTAL				23.82
	Add CPOH @ 15%				3.57
	Cost of each				27.39
	Say				27.40

7.28 Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with brick cove in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:

7.28.1 Red sand stone:

7.28.1.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja of 2.00 sqm (finished work)</i>				
	MATERIAL:				
1164	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm	sqm	2.75	155.00	426.25
2216	Red sand stone slab 40 mm thick (undressed)				
	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	77.87	19.70
	LABOUR:				
	Labour for dressing:				
0125	Mason (for plain stone work) 2nd class	day	0.50	273.00	136.50
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4,100.00	82.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	1.49	100.34
	Mortar for pointing 1:2(1 Cement: 2 Stone dust)				
3.12	Rate as per Item Number 3.12 of SH:Mortars	cum	0.009	4,678.60	42.11
9999	Pigment	L.S.	6.24	1.49	9.30
9999	Extra for using white cement	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.50	247.00	370.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding and sundries etc. Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm	L.S.	16.12	1.49	24.02
9999	Cost of Brick cover support. Brick work in triangular gap above cover with bricks of class designation 7.5 in cement mortar 1:4- 1/2x2.5x0.2x0.07=0.018cum	L.S.	104.00	1.49	154.96
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	4,067.85	73.22 (A)
	TOTAL				1,752.00
	Add Water Charges @ 1% except on A i.e on (1,752.00 - 73.22 =) 1,678.78				16.79
	TOTAL				1,768.79
	Add CPOH @ 15% except on A i.e on (1,768.79 - 73.22 =) 1,695.57				254.34
	Cost of 2 sqm				2,023.13
	Cost of 1 sqm				1,011.57
	Say				1,011.55

7.28.2 White sand stone:

7.28.2.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja of 2.00 sqm (finished work)</i>				
	MATERIAL:				
1165	Chisel dressed 80cm sloping length plus 20cm bearing Area = 2.5x1.00=2.50sqm	sqm	2.75	170.00	467.50
2216	White sand stone slab 40 mm thick (undressed)				
	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.253	77.87	19.70
	LABOUR:				
0125	Labour for dressing				
	Mason (for plain stone work) 2nd class	day	0.50	273.00	136.50
	Labour for dressing				
	Anchoring steel bars 12mm dia. 45cm long 5 Nos. @ 0.80kg/m = 0.02q				
1002	Mild steel round bar 12 mm dia and below	quintal	0.02	4,100.00	82.00
9999	Cutting threads and cost of nuts, washers, etc.	L.S.	67.34	1.49	100.34
	Mortar for pointing 1:2 (1 Cement: 2 Stone dust)				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.009	4,678.60	42.11
9999	Pigment	L.S.	6.24	1.49	9.30
9999	Extra cost of white cement	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0125	LABOUR: Mason (for plain stone work) 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.50	247.00	370.50
9999	Scaffolding and sundries etc.	L.S.	16.12	1.49	24.02
	Brick cover support 4 courses with bricks of class designation 75 4x7+5+5=38cm girth 2.5m length =38cmx2.5m=95cm				
9999	Cost of Brick cover support.	L.S.	104.00	1.49	154.96
	Brick work in triangular gap above cover with bricks of class designation 5 in cement mortar 1:4 $\frac{1}{2} \times 2.5 \times 0.2 \times 0.07 = 0.018 \text{ cum}$				
6.4.1	Rate as per Item Number 6.4.1 of SH: Brick work	cum	0.018	4,067.85	73.22 (A)
	TOTAL				1,793.25
	Add Water Charges @ 1% except on A i.e on (1,793.25 - 73.22 =) 1,720.03				17.20
	TOTAL				1,810.45
	Add CPOH @ 15% except on A i.e on (1,810.45 - 73.22 =) 1,737.23				260.58
	Cost of 2 sqm				2,071.03
	Cost of 1 sqm				1,035.52
	Say				1,035.50

7.29 Providing and fixing horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar 1:4 (1 cement : 4 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade:

7.29.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for (2.5x0.75m) 1.875 sqm</i>				
	MATERIAL:				
	Taking 2.5mx75cm projection + 15cm bearing = 2.5x0.9 = 2.25 sqm				
1164	Red sand stone slab 40 mm thick (undressed)	sqm	2.25	155.00	348.75
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	77.87	17.68
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.45	273.00	122.85
9999	Mortar for pointing 1:2	L.S.	53.82	1.49	80.19
9999	Pigment	L.S.	6.24	1.49	9.30
9999	Extra cost of white cement	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.60	273.00	163.80
0114	Beldar	day	0.80	247.00	197.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Scaffolding and sundries etc.	L.S.	13.52	1.49	20.14
	TOTAL				1,000.41
	Add Water Charges @ 1%				10.00
	TOTAL				1,010.41
	Add CPOH @ 15%				151.56
	Cost of 1.875 sqm				1,161.97
	Cost of 1 sqm				619.72
	Say				619.70

7.29.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for (2.5x0.75m) 1.875 sqm</i>				
	MATERIAL:				
	Taking 2.5mx75cm projection + 15cm bearing				
	= 2.5x0.9 = 2.25 sqm				
1165	White sand stone slab 40 mm thick (undressed)	sqm	2.25	170.00	382.50
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/cudm	tonne	0.227	77.87	17.68
	LABOUR:				
	Labour for dressing				
0125	Mason (for plain stone work) 2nd class	day	0.45	273.00	122.85
9999	Mortar for pointing 1:2	L.S.	53.82	1.49	80.19
9999	Pigment	L.S.	6.24	1.49	9.30
9999	Extra cost of white cement	L.S.	26.91	1.49	40.10
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.60	273.00	163.80
0114	Beldar	day	0.80	247.00	197.60
9999	Scaffolding and sundries etc.	L.S.	13.52	1.49	20.14
	TOTAL				1,034.16
	Add Water Charges @ 1%				10.34
	TOTAL				1,044.50
	Add CPOH @ 15%				156.67
	Cost of 1.875 sqm				1,201.17
	Cost of 1 sqm				640.62
	Say				640.60

7.30 30 mm red sand stone sun-shade (chisel-dressed) supported on red sand stone brackets, fixed in walls with cement mortar 1:4 (1 cement : 4 coarse sand), including finishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for window 1.6m length and 0.70m width = 1.12 sqm</i>				
	MATERIAL:				
	overall width 0.70+0.15=0.85 metres				
	Total area = 1.6x0.85=1.36sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Red stone brackets (chisel dressed) 30mm average thickness over all width of brackets $0.53+0.23=0.76\text{m}$ $2 \times 0.3 \times 0.76=0.46$ Total 1.36+0.46 =1.82sqm. Add wastage @10% = 0.18sqm. Total = 2.00 sqm				
1166	Red sand stone slab 30 mm thick (un-dressed)	sqm	2.00	120.00	240.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.14	77.87	10.90
9999	Cement mortar 1:4	L.S.	13.52	1.49	20.14
	LABOUR:				
	Labour for dressing and fixing				
0125	Mason (for plain stone work) 2nd class	day	0.86	273.00	234.78
0114	Beldar	day	0.50	247.00	123.50
	TOTAL				629.32
	Add Water Charges @ 1%				6.29
	TOTAL				635.61
	Add CPOH @ 15%				95.34
	Cost of 1.12 sqm				730.95
	Cost of 1 sqm				652.63
	Say				652.65

7.31 Providing and fixing red sand stone brackets 55x22.5x45 cm sunk and moulded including providing and fixing with 4 Nos gun metal cramp 25x6 mm 30 cm long and dowel bars 7.5 cm long 6mm dia as per design.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 bracket</i> Quantity of stone for 1 bracket $1 \times 55 \times 22.5 \times 45\text{cm} = 0.056\text{cum}$ or 56 cudm. Red sand stone = 56 cudm. Add wastage 10% = 5.6 cudm. Total =61.6 cudm				
1160	Red sand stone block	10 cudm	61.60	60.00	369.60
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.3kg/ cudm	tonne	0.14	77.87	10.90
	Dressing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	1.7926	273.00	489.38
0102	Blacksmith 1 st class	day	0.037	301.00	11.14
0114	Beldar	day	0.271	247.00	66.94
0115	Coolie	day	0.1355	247.00	33.47
0100	Bandhani	day	0.271	260.00	70.46
0373	Cramp Gun metal 25x6x300 mm	each	4.00	70.00	280.00
	Fixing charges				
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	0.2464	273.00	67.27

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0102	Blacksmith 1 st class	day	0.0336	301.00	10.11
0114	Beldar	day	0.1232	247.00	30.43
0115	Coolie	day	0.1232	247.00	30.43
0100	Bandhani	day	0.1232	260.00	32.03
0101	Bhisti	day	0.1232	260.00	32.03
9999	Scaffolding	L.S.	15.29	1.49	22.78
9999	Mortar for laying and pointing	L.S.	45.14	1.49	67.26
	Extra labour for ornamental finish				
0126	Mason (for ornamental stone work) 1 st class	day	0.95	301.00	285.95
	TOTAL				1,910.18
	Add Water Charges @ 1%				19.10
	TOTAL				1,929.28
	Add CPOH @ 15%				289.39
	Cost of each				2,218.67
	Say				2,218.65

7.32 Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.

7.32.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum</i>				
	MATERIAL:				
	Stone work plain ashlar cyclopean 3x3x0.75 - 6.75 cudm				
7.12.1.1	Rate as per Item Number 7.12.1.1 of SH:	cum	0.00675	22,285.00	150.42(A)
	Stone work				
9999	Extra for using white cement	L.S.	5.33	1.49	7.94
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.07	273.00	19.11
0114	Beldar day 0.07 247.00 17.29				
	TOTAL				194.76
	Add Water Charges @ 1% except on A i.e on (194.76 - 150.42 =) 44.34				0.44
	TOTAL				195.20
	Add CPOH @ 15% except on A i.e on (195.20 - 150.42 =) 44.78				6.72
	Cost of 0.00675 cum				201.92
	Cost of 1 cum				29,914.07
	Say				29,914.00

7.32.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for cornices (30cm long 30cm deep and 7.5cm project-iron) = 6.75cudm or 0.00675 cum</i>				
	MATERIAL:				
	Stone work plain ashlar cyclopean				
	3x3x0.75 = 6.75 cudm				
7.12.1.2	Rate as per Item Number 7.12.1.2 of SH:	cum	0.00675	23,060.00	155.66 (A)
	Stone work				
9999	Extra for using white cement	L.S.	5.33	1.49	7.94
	LABOUR:				
	Extra labour for making the cornices				
0125	Mason (for plain stone work) 2nd class	day	0.07	273.00	19.11
0114	Beldar	day	0.07	247.00	17.29
	TOTAL				200.00
	Add Water Charges @ 1% except on A i.e on (200.00 - 155.66 =) 44.34				0.44
	TOTAL				200.44
	Add CPOH @ 15% except on A i.e on (200.44 - 155.66 =) 44.78				6.72
	Cost of 0.00675 cum				207.16
	Cost of 1 cum				30,690.37
	Say				30,690.00

7.33 Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc.

7.33.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Red sand stone slab 40mm=1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10				
1164	Red sand stone slab 40 mm thick (undressed)	sqm	1.10	155.00	170.50
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	77.87	7.86
	LABOUR:				
0125	Mason (for plain stone work) 2nd class	day	12.70	273.00	3,467.10
0114	Beldar	day	8.45	247.00	2,087.15
9999	Mortar and sundries.	L.S.	80.73	1.49	120.29
	TOTAL				5,852.90
	Add Water Charges @ 1%				58.53
	TOTAL				5,911.43
	Add CPOH @ 15%				886.71
	Cost of 1 sqm				6,798.14
	Say				6,798.15

7.33.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	White sandstone slabx40mm = 1.00 sqm				
	Add 10% wastage				
	Total =0.10/1.10 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	1.10	170.00	187.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.101	77.87	7.86
	LABOUR:				
	For making, dressing and fixing				
0125	Mason (for plain stone work) 2nd class	day	12.70	273.00	3,467.10
0114	Beldar	day	8.45	247.00	2,087.15
9999	Mortar and sundries.	L.S.	80.73	1.49	120.29
	TOTAL				5,869.40
	Add Water Charges @ 1%				58.69
	TOTAL				5,928.09
	Add CPOH @ 15%				889.21
	Cost of 1 sqm				6,817.30
	Say				6,817.30

7.34 Extra for laying stone work in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete.
Note:- The quantity will be calculated by multiplying the depth measure from sub-soil water level upto the centre of gravity of stone work under sub-soil water with the quantity of stone work in cum executed under the sub-soil water. The depth of centre of gravity shall be reconed correct to 0.1 m. 0.05 m or more shall be taken as 0.1 m and less than 0.05 m ignored.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for depth of water 0.30m.</i>				
	<i>Quantity of concrete = 14 cum</i>				
	MATERIAL:				
	pumping hours = 3 hrs. on 0.375day				
0011	Hire charges of Pump set of capacity 4000 litres/hour	day	0.375	500.00	187.50
0114	Beldar	day	4.00	247.00	988.00
	for cleaning slush				
	TOTAL				1,175.50
	Add Water Charges @ 1%				11.76
	TOTAL				1,187.26
	Add CPOH @ 15%				178.09
	Cost of 4.2 cum / mtr depth				1,365.35
	cum/mtr depth				325.08
	Say				325.10

7.35 - Extra for laying stone work in or under foul position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 cum</i>				
	Extra labour due to slow progress				
0123	Mason (brick layer) 1 st class	day	0.02	301.00	6.02
0124	Mason (brick layer) 2nd class	day	0.02	273.00	5.46
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	0.15	247.00	37.05
	TOTAL				110.28
	Add Water Charges @ 1%				1.10
	TOTAL				111.38
	Add CPOH @ 15%				16.71
	Cost of 1 cum				128.09
	Say				128.10

7.36 Wall lining butch work upto 10 m height with Dholpur stone 40 mm thick rough facing on the exposed surface with stone strips of minimum length 300 mm and required width, including embedding every tenth layer and bottom most layer in masonry or concrete after making necessary chases of size 75x75 mm and by providing layer of 75 mm thick strips i/c 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) i/c ruled pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment to match the shade of stone complete as per direction of Engineer-incharge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	Dholpur stone 40mm thick Wall face = 1.00sqm.				
	Deduct for embed within 3x0.04x0.10=0.12 sqm				
	= 0.88sqm.				
	Add wastage 5% = 0.04sqm.				
	Total = 0.92 sqm				
1165	White sand stone slab 40 mm thick (undressed)	sqm	0.92	170.00	156.40
	75mm thick 3x0.04x1.0 = 0.12 sqm. Add wastage 5% = 0.01 sqm.				
	Total =0.13 sqm				
1163	White sand stone slab 75 mm thick (undressed)	sqm	0.13	280.00	36.40
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.108	77.87	8.41
	0.92x0.04 =0.0368 cum.				
	0.13x0.075 =0.0100 cum.				
	= 0.0468 cum. or 468 cudm.				
	468 cudm @ 2.3 kg/cudm = 108 kg = 0.108 tonne				
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device assuming 50mm thick strips 20x1.0 = 20 metre	metre	20.00	8.00	160.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Cement mortar with coarse sand 1:3 for (a) stone backing 12mm thick = 0.0144 cum. (b) for fixing of stone = 0.40/25 - 0.0160 cum. Total = 0.0304 cum Rate as per Item Number 3.8 of SH: Mortars Cutting chases and making good with mortar after insurting stone etc.	cum	0.0304	4,145.55	126.02
18.78	Rate as per Item Number 18.78 of SH: Water supply	metre	3.00	64.50	193.50 (A)
9999	White cement and pigment for pointing LABOUR:	L.S.	40.43	1.49	60.24
0126	Mason (for ornamental stone work) 1 st class	day	0.25	301.00	75.25
0125	Mason (for plain stone work) 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.50	247.00	123.50
0101	Bhisti	day	0.03	260.00	7.80
9999	Sundries and scaffolding brushes etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,055.87
	Add Water Charges @ 1% except on A i.e on (1,055.87 - 193.50 =) 862.37				8.62
	TOTAL				1,064.49
	Add CPOH @ 15% except on A i.e on (1,064.49 - 193.50 =) 870.99				130.65
	Cost of 1 sqm				1,195.14
	Say				1,195.15

7.37 Stone work (machine cut edges veneer work) for wall lining upto 10 m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1:2 (1 cement : 2 stone dust), including rubbing and polishing complete. (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately)

7.37.1 Kota stone slabs exposed face dressed and rubbed.

7.37.1.1 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL: 25mm thids. kota stoneslabs = 10 sqm. Add 15% wistage = 1.50 sqm Total 11.50 sqm				
1169	Kota stone slab 25mm thick (rough chiseled)	sqm	11.50	175.00	2,012.50
	Cement Mortar 1 : 3				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	77.87	52.17
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
9999	Cement mortar for pointing LABOUR:	L.S.	40.43	1.49	60.24
0125	Mason (for plain stone work) 2nd class	day	6.50	273.00	1,774.50
0114	Beldar	day	6.50	247.00	1,605.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	4.30	247.00	1,062.10
0139	Skilled Beldar (for floor rubbing etc.)	day	10.80	260.00	2,808.00
9999	Sundries	L.S.	111.54	1.49	166.19
	TOTAL				10,138.16
	Add Water Charges @ 1%				101.38
	TOTAL				10,239.54
	Add CPOH @ 15%				1,535.93
	Cost of 10 sqm				11,775.47
	Cost of 1 sqm				1,177.55
	Say				1,177.55

7.38 Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.

7.38.1 8 mm thick (mirror polished and machine cut edge)

7.38.1.1 Granite stone of any colour and shade

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Granite stone tile = 10.00 sqm.				
	Add 2.5% wastage = 0.25 sqm				
	Total =10.25 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	10.25	675.00	6,918.75
9999	Carriage of granite tiles	L.S.	40.04	1.49	59.66
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4,145.55	580.38
0367	Portland Cement	tonne	0.033	5,000.00	165.00
	slurry @ 3.3 kg/sqm				
9999	Mortar for pointing in white cement	L.S.	25.74	1.49	38.35
	LABOUR:				
	Labour for placing and fixing				
0123	Mason (brick layer) 1 st class	day	7.70	301.00	2,317.70
0114	Beldar	day	7.70	247.00	1,901.90
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.49	387.40
9999	Sundries	L.S.	171.60	1.49	255.68
	TOTAL				12,624.82
	Add Water Charges @ 1%				126.25
	TOTAL				12,751.07
	Add CPOH @ 15%				1,912.66
	Cost of 10 sqm				14,663.73
	Cost of 1 sqm				1,466.37
	Say				1,466.35

7.38.1.2 Raj Nagar plain white marble / Udaipur green marble / Zebra black marble

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	8mm thick Raj Nagar white stone tile = 10.00sqm				
	Add 2.5% wastage = 0.25 sqm				
	Total = 10.25sqm				
7439	8mm thick (mirror polished tiles machine cut edge) Raj Nagar white	sqm	10.25	480.00	4,920.00
9999	Carriage of Raj Nagar white stone tiles	L.S.	40.04	1.49	59.66
	Cement mortar 1:3				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.14	4,145.55	580.38
0367	Portland Cement	tonne	0.033	5,000.00	165.00
	slurry @ 3.3 kg/sqm				
9999	Mortar for pointing in white cement	L.S.	25.74	1.49	38.35
	Labour for placing and fixing :				
0123	Mason (brick layer) 1 st class	day	7.70	301.00	2,317.70
0114	Beldar	day	7.70	247.00	1,901.90
9999	Granular sand particles mixed with araldite to be pasted on each side to form interlocking arrangement with cement plaster	L.S.	260.00	1.49	387.40
9999	Sundries	L.S.	171.60	1.49	255.68
	TOTAL				10,626.07
	Add Water Charges @ 1%				106.26
	TOTAL				10,732.33
	Add CPOH @ 15%				1,609.85
	Cost of 10 sqm				12,342.18
	Cost of 1 sqm				1,234.22
	Say				1,234.20

7.39 Extra for stone work for wall lining on exterior walls of height more than 10 m from ground level for every additional height of 3 m or part there of.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Analysis same as Item Number 13.74				
	MATERIAL:				
9999	Scaffolding	L.S.	215.28	1.49	320.77
0123	Mason (brick layer) 1 st class	day	0.30	301.00	90.30
0114	Beldar	day	0.30	247.00	74.10
0101	Bhisti	day	0.15	260.00	39.00
9999	Sundries	L.S.	28.60	1.49	42.61
	TOTAL				566.78
	Add Water Charges @ 1%				5.67
	TOTAL				572.45
	Add CPOH @ 15%				85.87
	Cost of 10 sqm				658.32
	Cost of 1 sqm				65.83
	Say				65.85

7.40 Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and / or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-Charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately.)

7.40.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 sqm</i> Red sand stone = 3 x 1.00 sqm = 3.00 sqm Add wastage 25% = 0.75 sqm Total=3.75 sqm Add 20% wastage infixing due to broken edge = 0.60 sqm Total = 4.35 sqm				
8683	Red sand stone gang saw cut 30 mm thick	sqm	4.35	400.00	1,740.00
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	8.00	80.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	77.87	16.74
9999	Backing rod	L.S.	30.68	1.49	45.71
9999	Fixing including weather sealant and removing	L.S.	153.40	1.49	228.57
9999	Double scaffolding	L.S.	204.75	1.49	305.08
0126	Mason (for ornamental stone work) 1 st class	day	2.00	301.00	602.00
0114	Beldar	day	4.00	247.00	988.00
0114	Labour for lifting stone	day	1.00	247.00	247.00
9999	Silicon gun / pump etc. Labour for sealing	L.S.	204.75	1.49	305.08
0116	Fitter (grade 1)	day	0.25	301.00	75.25
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	204.75	1.49	305.08
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	1.49	76.32
	TOTAL				5,138.33
	Add Water Charges @ 1%				51.38
	TOTAL				5,189.71
	Add CPOH @ 15%				778.46
	Cost of 3 sqm				5,968.17
	Cost of 1 sqm				1,989.39
	Say				1,989.40

7.40.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 sqm</i> MATERIAL: White sand stone = 3.00sqm Add wastage 25% = 0.75 sqm =3.75 sqm.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add 20% wastage infixing due to broken edge = 0.60 sqm Total = 4.35 sqm				
8684	White sand stone gang saw cut 30 mm thick	sqm	4.35	435.00	1,892.25
1237	Cutting marble or sand stone slab up to 50 mm thick by mechanical device	metre	10.00	8.00	80.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab @ 2.30kg/cudm	tonne	0.215	77.87	16.74
9999	Backing rod	L.S.	30.68	1.49	45.71
9999	Fixing including weather sealant and removig	L.S.	153.40	1.49	228.57
9999	Double scaffolding	L.S.	204.75	1.49	305.08
0126	Mason (for ornamental stone work) 1 st class	day	2.00	301.00	602.00
0114	Beldar	day	4.00	247.00	988.00
	Labour for lifting stone				
0114	Beldar	day	1.00	247.00	247.00
9999	Silicon gun / pump etc.	L.S.	204.75	1.49	305.08
	Labour for sealing				
0116	Fitter (grade 1)	day	0.25	301.00	75.25
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	204.75	1.49	305.08
9999	Rubbing and polishing vertical surface of stone cladding	L.S.	51.22	1.49	76.32
	TOTAL				5,290.58
	Add Water Charges @ 1%				52.91
	TOTAL				5,343.49
	Add CPOH @ 15%				801.52
	Cost of 3 sqm				6,145.01
	Cost of 1 sqm				2,048.34
	Say				2,048.35

7.41 Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square / rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of MS brackets / lugs of angle iron / flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps / pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-Charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor

to the Engineer-in-Charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid.)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4009	<i>Details of cost for 100.78 kg</i> M.S. tube 50x25x18mm vertical=4x3.0=12.00m. Vertical=3x4x0.93=11.16m Total= 23.16m. Add 10% wastage = 2.32 Total 25.48 mts@2.02 kg/m=51.47 kg Mild steel tubes hot finished welded type Angle iron 50x50x6mm 16x0.60=9.60 16x0.15=2.40 Total= 12.00 Add 10% wastage = 1.20m Total= 13.20m @4.50kg/m=59.4 kg or 0.594 q	kilogram	51.47	48.00	2,470.56
1007	Structural steel such as tees, angles channels and R.S. joists Cement concrete 1:2:4 = 16x0.30x0.23x0.30=0.331 cum	quintal	0.594	4,250.00	2,524.50
4.1.3	Rate as per Item Number 4.1.3 of SH: Concrete work Making holes in brick work=16Nos LABOUR:	cum	0.331	4,514.05	1,494.15(A)
0123	Mason (brick layer) 1 st class	day	0.26	301.00	78.26
0124	Mason (brick layer) 2nd class	day	0.26	273.00	70.98
0114	Beldar	day	2.00	247.00	494.00
	Welding for frame welding 16x(2.5+5+2.5+5) = 240 cm For hold fast 16x20cm = 320cm Total =560cm				
1215	Welding by electric plant LABOUR:	cm	560.00	1.50	840.00
0102	Blacksmith 1 st class	day	1.34	301.00	403.34
0100	Bandhani	day	0.67	260.00	174.20
0114	Beldar	day	4.92	247.00	1,215.24
9999	Sundries	L.S.	80.73	1.49	120.29
3.42	Painting with epoxy paint over and including priming coat area 22.80x0.15 = 12x0.2=2.40 Total = 5.82sqm				
13.52.1	Rate as per Item Number 13.52.1 of SH: Finishing	sqm	5.82	105.50	614.01 (A)
9999	For labour scaffolding etc.	L.S.	80.73	1.49	120.29
	TOTAL				10,619.82
	Add Water Charges @ 1% except on A i.e on (10,619.82 - 2,108.16 =) 8,511.66				85.12
	TOTAL				10,704.94
	Add CPOH @ 15% except on A i.e on (10,704.94 - 2,108.16 =) 8,596.78				1,289.52
	Cost of 100.78 kilogram				11,994.46
	Cost of 1 kilogram				119.02
	Say				119.00

7.42 Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
8698	MATERIAL: Stainless steel cramps(weight 260 grams) with nuts, bolts and washer for dry stone cladding	each	10.00	84.00	840.00
	LABOUR: for making holes, recesses etc. and fixing of stainless steel cramps				
0103	Blacksmith 2nd class	day	0.10	273.00	27.30
0124	Mason (brick layer) 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.10	247.00	271.70
9999	Scaffolding, hire charge of drill machine etc.	L.S.	20.80	1.49	30.99
9999	Sundries	L.S.	20.80	1.49	30.99
	TOTAL				1,473.98
	Add Water Charges @ 1%				14.74
	TOTAL				1,488.72
	Add CPOH @ 15%				223.31
	Cost of 10 nos				1,712.03
	Cost of each				171.20
	Say				171.20

SUB HEAD : 8.0

MARBLE & GRANITE WORK

8.1 Marble work gang saw cut (polished and machine cut) of thickness 18 mm for wall lining (veneer work), backing filled with a grout of 12 mm thick average in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 marble dust) with an admixture of pigment to match the marble shade (To be secured to the backing by means of cramps, which shall be paid for separately).

8.1.1 Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble.

8.1.1.1 Area of slab upto 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.50 sqm</i>				
	Finished work = 0.50sqm				
	Add for wastage @ 20% = 0.10 sqm				
	Total = 0.60 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.60	610.00	366.00
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.03	77.87	2.34
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.008	4,145.55	33.16
	White cement mortar 1:2 (1 white cement: 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0012	9,509.85	11.41
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.335	301.00	100.84
0100	Bandhani	day	0.335	260.00	87.10
0114	Beldar	day	0.335	247.00	82.74
0115	Coolie	day	0.335	247.00	82.74
0101	Bhisti	day	0.335	260.00	87.10
0128	Mate	day	0.165	260.00	42.90
0102	Blacksmith 1 st class	day	0.135	301.00	40.64
9999	Scaffolding	L.S.	13.39	1.49	19.95
	TOTAL				956.92
	Add Water Charges @ 1%				9.57
	TOTAL				966.49
	Add CPOH @ 15%				144.97
	Cost of 0.5 sqm				1,111.46
	Cost of 1 sqm				2,222.92
	Say				2,222.90

8.1.1.2 Area of slab over 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.00 sqm</i>				
	Finished work = 1.00sqm				
	Add for wastage @ 20% = 0.20 sqm				
	Total = 1.20sqm				
7453	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm)	sqm	1.20	680.00	816.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.06	77.87	4.67
	Cement mortar 1:3 (Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0144	4,145.55	59.70
	White cement mortar 1:2 (1 white cement: 2 marble dust)				
3.15	Rate as per Item Number 3.15 of SH: Mortars	cum	0.0025	9,509.85	23.77
	LABOUR:				
	For fixing				
0126	Mason (for ornamental stone work) 1 st class	day	0.67	301.00	201.67
0100	Bandhani	day	0.67	260.00	174.20
0114	Beldar	day	0.67	247.00	165.49
0115	Coolie	day	0.67	247.00	165.49
0101	Bhisti	day	0.67	260.00	174.20
0128	Mate	day	0.33	260.00	85.80
0102	Blacksmith 1 st class	day	0.27	301.00	81.27
9999	Scaffolding	L.S.	26.91	1.49	40.10
	TOTAL				1,992.36
	Add Water Charges @ 1%				19.92
	TOTAL				2,012.28
	Add CPOH @ 15%				301.84
	Cost of 1 sqm				2,314.12
	Say				2,314.10

8.2 Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.

8.2.1 Raj Nagar Plain white marble / Udaipur green marble / Zebra black marble

8.2.1.1 Area of slab upto 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.50 sqm</i>				
	Mirror polished Abu plain white = 0.50 sqm				
	Wastage 5% = 0.025 sqm				
	Total = 0.525 sqm				
7452	Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area upto 0.50 sqm)	sqm	0.525	610.00	320.25
	Cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3,485.40	41.82
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	301.00	210.70
0114	Beldar	day	0.325	247.00	80.28
0115	Coolie	day	0.325	247.00	80.28
9999	Moulding and edge polishing	L.S.	39.00	1.49	58.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.49	24.21
	TOTAL				815.65
	Add Water Charges @ 1%				8.16
	TOTAL				823.81
	Add CPOH @ 15%				123.57
	Cost of 0.5 sqm				947.38
	Cost of 1 sqm				1,894.76
	Say				1,894.75

8.2.1.2 Area of slab over 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7453	<i>Details of cost for 1.00 sqm</i> Mirror polished Abu plain white = 1.00 sqm Wastage 5% = 0.05 sqm Total = 1.05 sqm Raj nagar plain white marble (table rubbed and polished) 18 mm thick (slab area more than 0.50 sqm) Cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	1.05	680.00	714.00
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	1.40	301.00	421.40
0114	Beldar	day	0.65	247.00	160.55
0115	Coolie	day	0.65	247.00	160.55
9999	Mouldling and edge polishing	L.S.	78.00	1.49	116.22
9999	Sundries apoxy resin & cutting machine etc.	L.S.	32.50	1.49	48.42
	TOTAL				1,704.79
	Add Water Charges @ 1%				17.05
	TOTAL				1,721.84
	Add CPOH @ 15%				258.28
	Cost of 1 sqm				1,980.12
	Say				1,980.10

8.2.2 Granite of any colour and shade

8.2.2.1 Area of slab upto 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7295	<i>Details of cost for 0.50 sqm</i> Mirror polished granite = 0.50 sqm. Wastage 5% = 0.025 sqm Total = 0.525 sqm Granite of any colour, 18 mm thick (slab area upto 0.50 sqm) Cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	0.525	1,550.00	813.75
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3,485.40	41.82
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.70	301.00	210.70
0114	Beldar	day	0.325	247.00	80.28
0115	Coolie	day	0.325	247.00	80.28
9999	Mouldling and edge polishing	L.S.	39.00	1.49	58.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries apoxy resin & cutting machine etc.	L.S.	16.25	1.49	24.21
	TOTAL				1,309.15
	Add Water Charges @ 1%				13.09
	TOTAL				1,322.24
	Add CPOH @ 15%				198.34
	Cost of 0.5 sqm				1,520.58
	Cost of 1 sqm				3,041.16
	Say				3,041.15

8.2.2.2 Area of slab over 0.50 sqm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.00 sqm</i>				
	Mirror polished granite= 2.00 sqm				
	Wastage 5% = 0.10sqm				
	Total = 2.10sqm				
7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	2.10	1,640.00	3,444.00
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.048	3,485.40	167.30
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	2.80	301.00	842.80
0114	Beldar	day	1.30	247.00	321.10
0115	Coolie	day	1.30	247.00	321.10
9999	Moulding and edge polishing	L.S.	78.00	1.49	116.22
9999	Sundries apoxy resin & cutting machine etc.	L.S.	65.00	1.49	96.85
	TOTAL				5,309.37
	Add Water Charges @ 1%				53.09
	TOTAL				5,362.46
	Add CPOH @ 15%				804.37
	Cost of 2 sqm				6,166.83
	Cost of 1 sqm				3,083.42
	Say				3,083.40

8.3 Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.

8.3.1 Marble work

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00m</i>				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	1.50	200.00	300.00
0114	Beldar	day	2.00	247.00	494.00
9999	Sundries Blades & Polish etc.	L.S.	78.00	1.49	116.22
	TOTAL				910.22
	Add Water Charges @ 1%				9.10
	TOTAL				919.32
	Add CPOH @ 15%				137.90
	Cost of 10 metre				1,057.22
	Cost of 1 metre				105.72
	Say				105.70

8.3.2 Granite work

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.00m</i>				
	LABOUR:				
0019	Hand Grinder for mirror polish	day	2.50	200.00	500.00
0114	Beldar	day	3.50	247.00	864.50
9999	Sundries Blades & Polish etc.	L.S.	117.00	1.49	174.33
	TOTAL				1,538.83
	Add Water Charges @ 1%				15.39
	TOTAL				1,554.22
	Add CPOH @ 15%				233.13
	Cost of 10 metre				1,787.35
	Cost of 1 metre				178.74
	Say				178.75

8.4 Extra for fixing marble / granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for facia 1.5m long and 0.15m wide</i>				
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.30	301.00	90.30
0115	Coolie	day	0.30	247.00	74.10
9999	Scaffolding, expoxy etc.	L.S.	39.00	1.49	58.11
	Cement mortar 1:4 (1 Cement: 4 Coarse sand)				
	1.5x0.15x0.02 = 0.005 cum				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.005	3,485.40	17.43
	TOTAL				239.94
	Add Water Charges @ 1%				2.40
	TOTAL				242.34
	Add CPOH @ 15%				36.35
	Cost of 1.5 metre				278.69
	Cost of 1 metre				185.79
	Say				185.80

8.5 Extra for providing opeing of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for providing one opening of required size</i>				
	LABOUR:				
0126	Mason (for ornamental stone work) 1 st class	day	0.40	301.00	120.40
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	15.30	1.49	22.80
	TOTAL				242.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				2.42
	TOTAL				244.42
	Add CPOH @ 15%				36.66
	Cost of each				281.08
	Say				281.10

8.6 Mirror polishing on marble work/ granite work/ stone work where ever required to give high gloss finish complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0013	Machine for rubbing of floors	day	1.00	300.00	300.00
0114	Beldar	day	2.50	247.00	617.50
0101	Bhisti	day	1.50	260.00	390.00
9999	Sundries grease, mop grinding stones etc.	L.S.	65.00	1.49	96.85
	TOTAL				1,404.35
	Add Water Charges @ 1%				14.04
	TOTAL				1,418.39
	Add CPOH @ 15%				212.76
	Cost of 10 sqm				1,631.15
	Cost of 1 sqm				163.12
	Say				163.10

8.7 Providing and fixing cramps of required size & shape in RCC/ CC / Brick masonry backing with cement mortar 1:2 (1 cement :2 coarse sand), including drilling necessary hole in stones and embedding the cramp in the hole (fastener to be paid separately).

8.7.1 Gunmetal cramps

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cramps</i>				
	MATERIAL:				
	Gun Metal cramp				
	$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$				
	$= 13.3 \times 10^{-5}$				
	Less hole				
	$10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5}$				
	$= 11.9 \times 10^{-5}$				
	$11.9 \times 10^{-5} \times 8640 = 1.03 \text{ kg}$				
	Add wastage @ 5% = 0.051 kg				
	= 1.08 kg				
7338	Gun metal cramp	kilogram	1.08	305.00	329.40
9999	Carriage	L.S.	3.90	1.49	5.81
	Cement montar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	4,863.85	4.86
9999	Labour for fixing in position	L.S.	65.00	1.49	96.85
	TOTAL				436.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				4.37
	TOTAL				441.29
	Add CPOH @ 15%				66.19
	Cost of 1.03 kg				507.48
	Cost of 1 kg				492.70
	Say				492.70

8.7.2 Stainless steel cramps

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 cramps</i>				
	MATERIAL:				
	Stainless steel cramp				
	$10 \times 0.064 \times 0.025 \times 0.006 = 9.6 \times 10^{-5}$				
	$10 \times 0.025 \times 0.025 \times 0.006 = 3.7 \times 10^{-5}$				
	$= 13.3 \times 10^{-5}$				
	Less hole				
	$10 \times 0.024 \times 0.010 \times 0.006 = 1.4 \times 10^{-5}$				
	$11.9 \times 10^{-5} \times 7850 = 0.934 \text{ kg}$				
	Add wastage @ 5% = 0.047 kg				
	Total = 0.981kg				
7339	Stainless steel cramp	kilogram	0.981	320.00	313.92
9999	Carriage	L.S.	3.90	1.49	5.81
	Cement mortar 1:2 (1 cement: 2 coarse sand)				
3.7	Rate as per Item Number 3.7 of SH: Mortars	cum	0.001	4,863.85	4.86
9999	Labour for fixing in position	L.S.	65.00	1.49	96.85
	TOTAL				421.44
	Add Water Charges @ 1%				4.21
	TOTAL				425.65
	Add CPOH @ 15%				63.85
	Cost of 0.934 kg				489.50
	Cost of 1 kg				524.09
	Say				524.10

8.8 Providing and fixing expansion hold fasteners on C.C. /R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.

8.8.1 Wedge expansion type

8.8.1.1 Fastener with threaded dia 6 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 nos. W.E.H. fastener</i>				
	MATERIAL:				
7430	Wedge expansion hold fastener 1/4" or 6 mm	each	30.00	12.00	360.00
	36.5mm length				
1034	Bolts and nuts up to 300 mm in length (36.5+10mm)	quintal	0.0045	5,400.00	24.30
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	301.00	75.25
0114	Beldar	day	0.25	247.00	61.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Hire and running charges for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	1.49	48.42
	TOTAL				569.72
	Add Water Charges @ 1%				5.70
	TOTAL				575.42
	Add CPOH @ 15%				86.31
	Cost of 30 nos				661.73
	Cost of each				22.06
	Say				22.05

8.8.1.2 Fastener with threaded dia 10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7431	<i>Details of cost for 30 nos. W.E.H. fastener</i> MATERIAL: Wedge expansion hold fastener 3/8" or 10 mm 44.5mm length	each	30.00	14.00	420.00
1034	Bolts and nuts up to 300 mm in length (44.5+10mm)	quintal	0.006	5,400.00	32.40
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	301.00	75.25
0114	Beldar	day	0.25	247.00	61.75
9999	Hire and running charge for hand drill machine Sundries, drilling bit scaffolding etc.	L.S.	32.50	1.49	48.42
	TOTAL				637.82
	Add Water Charges @ 1%				6.38
	TOTAL				644.20
	Add CPOH @ 15%				96.63
	Cost of 30 nos				740.83
	Cost of each				24.69
	Say				24.70

8.8.1.3 Fastener with threaded dia 12 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7432	<i>Details of cost for 30 nos.</i> MATERIAL: Wedge expansion hold fastener 1/2" or 12 mm 58.7mm length	each	30.00	26.00	780.00
1034	Bolts and nuts up to 300 mm in length Length (58.7+10mm) @ 0.05 kg./each	quintal	0.0075	5,400.00	40.50
	LABOUR:				
0116	Fitter (grade 1)	day	0.25	301.00	75.25
0114	Beldar	day	0.25	247.00	61.75
9999	Hire and running charges for hand drill	L.S.	32.50	1.49	48.42
	TOTAL				1,005.92
	Add Water Charges @ 1%				10.06
	TOTAL				1,015.98

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15%				152.40
	Cost of 30 nos				1,168.38
	Cost of each				38.95
	Say				38.95

8.9 Stone tile (polished) work for wall lining over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and cement slurry @ 3.3 kg/ sqm including pointing in white cement complete.

8.9.1 8 mm thick

8.9.1.1 Raj nagar plain white marble / Udaipur green marble / Zebra black marble

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	8mm thick marble tiles.				
	Qty. = 1.00 sqm. + Add wastage @2.5% = 0.025 sqm				
	Total = 1.025 sqm				
2751	8 mm thick marble tiles (polished) Raj Nagar	sqm	1.025	340.00	348.50
9999	Carriage of tiles	L.S.	3.95	1.49	5.89
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing	L.S.	25.38	1.49	37.82
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
0123	Mason (brick layer) 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries etc.	L.S.	16.90	1.49	25.18
	TOTAL				1,039.93
	Add Water Charges @ 1%				10.40
	TOTAL				1,050.33
	Add CPOH @ 15%				157.55
	Cost of 1 sqm				1,207.88
	Say				1,207.90

8.9.1.2 Granite of any colour and shade

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	8mm thick Granite tiles.				
	Qty. = 1.00 sqm. + Add wastage .@2.5% = 0.025sqm				
	Total = 1.025 sqm				
2750	8 mm thick granite stone tiles (mirror polished of all shades)	sqm	1.025	675.00	691.87
9999	Carriage of tiles	L.S.	3.95	1.49	5.89
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing	L.S.	25.38	1.49	37.82
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
0123	Mason (brick layer) 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries etc.	L.S.	16.90	1.49	25.18
	TOTAL				1,383.30
	Add Water Charges @ 1%				13.83
	TOTAL				1,397.13
	Add CPOH @ 15%				209.57
	Cost of 1 sqm				1,606.70
	Say				1,606.70

8.10 Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-Charge and finished smooth.

8.10.1 White Agaria Marble Stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one No or 0.375 sqm</i>				
	MATERIAL:				
	Agaria Marble Stone 1 x 0.75 x 0.50 = 0.375 +				
	Add wastage @ 20% = 0.075 sqm.				
	Total = 0.45sqm				
7244	Table rubbed polished stone 18 mm thick (75x50cm) Agaria Marble stone - 18 mm thick	sqm	0.45	1,630.00	733.50
9999	Cement concrete 1:2:4 for filling	L.S.	21.58	1.49	32.15
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.16	1.49	64.31
9999	Sundries	L.S.	21.58	1.49	32.15
	TOTAL				862.11
	Add Water Charges @ 1%				8.62
	TOTAL				870.73
	Add CPOH @ 15%				130.61
	Cost of 0.375 sqm				1,001.34
	Cost of 1 sqm				2,670.24
	Say				2,670.25

8.10.2 Granite Stone of approved shade

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one No or 0.375 sqm</i>				
	MATERIAL:				
	Granite Stone 1x0.75x0.50 = 0.375sqm.+				
	Add wastage @ 20% = 0.075 sqm				
	Total = 0.45 sqm				
7245	Table rubbed polished stone 18mm thick (75x50cm) Granite stone - 18 mm thick	sqm	0.45	1,825.00	821.25
9999	Cement concrete 1:2:4 for fixing	L.S.	21.58	1.49	32.15
9999	Labour for fixing, edge rounding and final polishing	L.S.	43.16	1.49	64.31

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	21.58	1.49	32.15
	TOTAL				949.86
	Add Water Charges @ 1%				9.50
	TOTAL				959.36
	Add CPOH @ 15%				143.90
	Cost of 0.375 sqm				1,103.26
	Cost of 1 sqm				2,942.03
	Say				2,942.05

SUB HEAD : 9.0
WOOD AND PVC WORK

9.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).

9.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	MATERIAL:				
	Superior class teakwood such as Dandeli Balarshah or Malabar				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.5x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
1189	Second class teak wood in scantling	10 cudm	38.00	640.00	2,432.00
2204	Carriage of timber	cum	0.038	100.11	3.80
	LABOUR:				
0156	Carpenter (average)	day	0.72	287.00	206.64
0114	Beldar	day	0.07	247.00	17.29
	TOTAL				2,659.73
	Add Water Charges @ 1%				26.60
	TOTAL				2,686.33
	Add CPOH @ 15%				402.95
	Cost of 0.036 cum				3,089.28
	Cost of 1 cum				85,813.33
	Say				85,813.30

9.1.2 Sal wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	MATERIAL:				
	Salwood				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
1199	Sal wood in scantling	10 cudm	38.00	500.00	1,900.00
2204	Carriage of timber	cum	0.038	100.11	3.80
	LABOUR:				
0156	Carpenter (average)	day	0.72	287.00	206.64
0114	Beldar	day	0.07	247.00	17.29
	TOTAL				2,127.73
	Add Water Charges @ 1%				21.28
	TOTAL				2,149.01
	Add CPOH @ 15%				322.35
	Cost of 0.036 cum				2,471.36
	Cost of 1 cum				68,648.89
	Say				68,648.90

9.1.3 - Kiln seasoned and chemically treated Hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	MATERIAL:				
	Hollock wood				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
2466	Hollock wood in scantling	10 cudm	38.00	310.00	1,178.00
2204	Carriage of timber	cum	0.038	100.11	3.80
2504	Kiln seasoning of timber	cum	0.038	680.00	25.84
9999	Chemical treatment	L.S.	8.97	1.49	13.37
	LABOUR:				
0156	Carpenter (average)	day	0.72	287.00	206.64
0114	Beldar	day	0.07	247.00	17.29
	TOTAL				1,444.94
	Add Water Charges @ 1%				14.45
	TOTAL				1,459.39
	Add CPOH @ 15%				218.91
	Cost of 0.036 cum				1,678.30
	Cost of 1 cum				46,619.44
	Say				46,619.45

9.2 Providing laminated veneer lumber conforming to IS:14616 and TAD -15: 2001(Part B) in factory made frames of doors, windows, clerestory windows and other frames, wrought framed and fixing in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	MATERIAL:				
	Laminated veneer lumber including				
	wastage @ 5%				
	2x206.75x9.5x7.0cm =0.028cum+				
	1x117.50x9.5x7.0cm = 0.008cum.				
	= 0.036cum.+				
	Add for wastage @ 5% = 0.002cum.				
	Grand Total = 0.038cum = 38 cudm				
7157	Laminated veneer lumber confirming to TADS 15:1995 manufactured in factory in frames of doors, windows	10 cudm	38.00	665.00	2,527.00
2204	Carriage of timber	cum	0.038	100.11	3.80
	LABOUR:				
0111	Carpenter 1 st class	day	0.20	301.00	60.20
0112	Carpenter 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				2,695.00
	Add Water Charges @ 1%				26.95

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2,721.95
	Add CPOH @ 15%				408.29
	Cost of 0.036 cum				3,130.24
	Cost of 1 cum				86,951.11
	Say				86,951.10

9.3 Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position :

9.3.1 Sal wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ceiling for a room 3x3m</i>				
	MATERIAL:				
	Salwood				
	= $6 \times 3.30 \times (50/1000) \times (125/1000) = 0.1238$ cum. +				
	Cross battens 60mm centre to center				
	38x50mm.				
	$6 \times 3 \times (38/1000) \times (50/1000) = 0.0342$ cum.				
	= 0.1580 cum.+				
	Add for wastage @ 5% = 0.0079 cum.				
	= 0.1659 cum. say 166 cudm				
1199	Sal wood in scantling	10 cudm	166.00	500.00	8,300.00
2204	Carriage of timber	cum	0.166	100.11	16.62
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries and screws etc.	L.S.	53.82	1.49	80.19
	TOTAL				8,916.81
	Add Water Charges @ 1%				89.17
	TOTAL				9,005.98
	Add CPOH @ 15%				1,350.90
	Cost of 0.158 cum				10,356.88
	Cost of 1 cum				65,549.87
	Say				65,549.90

9.3.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ceiling for a room 3x3m</i>				
	MATERIAL:				
	Hollock wood				
	= $6 \times 3.30 \times (50/1000) \times (125/1000) = 0.1238$ cum. +				
	Cross battens 60mm centre to center				
	38x50mm.				
	$6 \times 3 \times (38/1000) \times (50/1000) = 0.0342$ cum.				
	= 0.1580 cum.+				
	Add for wastage @ 5% = 0.0079 cum.				
	= 0.1659 cum. say 166 cudm				
2466	Hollock wood in scantling	10 cudm	166.00	310.00	5,146.00
2204	Carriage of timber	cum	0.166	100.11	16.62
2504	Kiln seasoning of timber	cum	0.166	680.00	112.88

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Chemical treatment	L.S.	18.20	1.49	27.12
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	1.00	247.00	247.00
9999	Sundries screws etc	L.S.	53.82	1.49	80.19
	TOTAL				5,902.81
	Add Water Charges @ 1%				59.03
	TOTAL				5,961.84
	Add CPOH @ 15%				894.28
	Cost of 0.158 cum				6,856.12
	Cost of 1 cum				43,393.16
	Say				43,393.20

9.4 Extra for additional labour for circular works, such as in frames of fan light:

9.4.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.1				
	MATERIAL:				
1189	Second class teak wood in scantling	10 cudm	3.80	640.00	243.20
2204	Carriage of timber	cum	0.0038	100.11	0.38
	LABOUR:				
0156	Carpenter (average)	day	0.072	287.00	20.66
0114	Beldar	day	0.007	247.00	1.73
	TOTAL				265.97
	Add Water Charges @ 1%				2.66
	TOTAL				268.63
	Add CPOH @ 15%				40.29
	Cost of 0.036 cum				308.92
	Cost of 1 cum				8,581.11
	Say				8,581.10

9.4.2 Sal wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.2				
	MATERIAL:				
1199	Sal wood in scantling	10 cudm	3.80	500.00	190.00
2204	Carriage of timber	cum	0.0038	100.11	0.38
	LABOUR:				
0156	Carpenter (average)	day	0.072	287.00	20.66
0114	Beldar	day	0.007	247.00	1.73
	TOTAL				212.77
	Add Water Charges @ 1%				2.13
	TOTAL				214.90
	Add CPOH @ 15%				32.24
	Cost of 0.036 cum				247.14
	Cost of 1 cum				6,865.00
	Say				6,865.00

9.4.3 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for chowkhat of a door 206.75x117.5cm</i>				
	Extra Materials and labour for wastage @ 10% on quantity of item no 9.1.3				
	MATERIAL:				
2466	Hollock wood in scantling	10 cudm	3.80	310.00	117.80
2204	Carriage of timber	cum	0.0038	100.11	0.38
2504	Kiln seasoning of timber	cum	0.0038	680.00	2.58
9999	Chemical treatment	L.S.	0.90	1.49	1.34
	LABOUR:				
0156	Carpenter (average)	day	0.072	287.00	20.66
0114	Beldar	day	0.007	247.00	1.73
	TOTAL				144.49
	Add Water Charges @ 1%				1.44
	TOTAL				145.93
	Add CPOH @ 15%				21.89
	Cost of 0.036 cum				167.82
	Cost of 1 cum				4,661.67
	Say				4,661.65

9.5 Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S.pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.

9.5.1 Second class teak wood

9.5.1.1 35 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm)</i>				
	MATERIAL:				
	Teak wood				
	Styles 4x200x10.0x3.5cm = 0.028 cum+				
	Rails				
	Top rails 1x110.5x3.5cm = 0.004 cum.+				
	Bottom rails 1x110.5x20x3.5cm = 0.008cum+				
	Lock rails 1x110.5x15x3.5cm = 0.006cum+				
	Beading 2x186. 1x1. 9x1.2cm = 0.001cum.				
	Total = 0.047 cum+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum = 51 cudm				
1190	Second class teak wood in planks	10 cudm	51.00	720.00	3,672.00
2204	Carriage of timber	cum	0.051	100.11	5.11
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR:				
	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				4,526.50
	Add Water Charges @ 1%				45.26
	TOTAL				4,571.76
	Add CPOH @ 15%				685.76
	Cost of 2.16 sqm				5,257.52
	Cost of 1 sqm				2,434.04
	Say				2,434.05

9.5.1.2 30 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a Door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
	Teak wood				
	Styles : 4x200x10.0x3.0cm = 0.024 cum+				
	Top rails :1x110.5x9.5x3.0cm = 0.003cum+				
	Bottom rails: 1x110.5x19.7x3.0cm =0.007cum+				
	Lockrails: 1x110.5x15.0x3.0cm =0.005cum+				
	Beading : 2x186.1x1.9x1.2cm = 0.001 cum.				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	Grand Total = 0.044 cum = 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	720.00	3,168.00
2204	Carriage of timber	cum	0.044	100.11	4.40
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				4,021.79
	Add Water Charges @ 1%				40.22
	TOTAL				4,062.01
	Add CPOH @ 15%				609.30
	Cost of 2.16 sqm				4,671.31
	Cost of 1 sqm				2,162.64
	Say				2,162.65

9.5.2 Kiln seasoned and chemically treated hollock wood

9.5.2.1 35 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16 sqm</i> MATERIAL: Hollock wood Styles 4x200x10.0x3.5cm = 0.028 cum+ Rails Top rails 1x110.5x10.0x3.5cm = 0.004 cum.+ Bottom rails 1x110.5x20.0x3.5cm = 0.008cum+ Lock rails 1x110.5x15.00x3.5cm = 0.006cum+ Beading 2x186.1x1.9x1.2cm = 0.001cum. Total = 0.047 cum+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum = 51 cudm				
2505	Hollock wood in planks	10 cudm	51.00	350.00	1,785.00
2204	Carriage of timber	cum	0.051	100.11	5.11
2504	Kiln seasoning of timber	cum	0.051	680.00	34.68
9999	Chemical treatment	L.S.	9.10	1.49	13.56
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				2,687.74
	Add Water Charges @ 1%				26.88
	TOTAL				2,714.62
	Add CPOH @ 15%				407.19
	Cost of 2.16 sqm				3,121.81
	Cost of 1 sqm				1,445.28
	Say				1,445.30

9.5.2.2 30 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm</i> MATERIAL: Hollock wood Styles 4x200x10.0x3.0cm = 0.024 cum+ Rails Top rails 1x110.5x9.50x3.0cm = 0.003 cum.+ Lock rails 1x110.5x15.0x3.0cm = 0.005cum+ Bottom rails 1x110.5x19.7x3.0cm = 0.007cum+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Beading 2x186.1x1.9x1.2cm = 0.001cum Total = 0.040 cum.+ Add for wastage @ 10% = 0.004cum Grand Total = 0.044 cum or = 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	350.00	1,540.00
2204	Carriage of timber	cum	0.044	100.11	4.40
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
9999	Chemical treatment	L.S.	9.10	1.49	13.56
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				2,437.27
	Add Water Charges @ 1%				24.37
	TOTAL				2,461.64
	Add CPOH @ 15%				369.25
	Cost of 2.16 sqm				2,830.89
	Cost of 1 sqm				1,310.60
	Say				1,310.60

9.5.3 Kiln seasoned selected planks of sheesham wood

9.5.3.1 35 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm</i> Sheesham wood Styles 4x200x10.0x3.5cm = 0.028 cum + Rails Top rails 1x110.5x10.0x3.5cm = 0.004cum.+ Lock rails 1x110.5x15.0x3.5cm = 0.006cum+ Beading 2x86.1x1.9x1.2cm = 0.001 cum. Total = 0.047 cum.+ Add for wastage @ 10% = 0.005cum Grand Total = 0.051 cum or = 51 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.00	650.00	3,315.00
2204	Carriage of timber	cum	0.051	100.11	5.11
2504	Kiln seasoning of timber	cum	0.051	680.00	34.68
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Carriage	L.S.	35.88	1.49	53.46
	TOTAL				4,204.18
	Add Water Charges @ 1%				42.04
	TOTAL				4,246.22
	Add CPOH @ 15%				636.93
	Cost of 2.16 sqm				4,883.15
	Cost of 1 sqm				2,260.72
	Say				2,260.70

9.5.3.2 30 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door (1/3rd glazed and 2/3rd panelled) 200x108cm = 2.16sqm</i>				
	Sheesham wood				
	Styles 4x200x10.0x3.5cm = 0.028 cum+				
	Rails				
	Top rails 1x110.5x10.0x3.5cm = 0.004cum.+				
	Lock rails 1x110.5x15.0x3.5cm = 0.006cum+				
	Beading 2x186.1x1.9x1.2cm = 0.001 cum.				
	Total = 0.047 cum.+				
	Add for wastage @ 10% = 0.005cum				
	Grand Total = 0.051 cum or = 51 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2,860.00
2204	Carriage of timber	cum	0.044	100.11	4.40
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
0596	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	6.00	60.00	36.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0114	Beldar	day	0.76	247.00	187.72
9999	Carriage	L.S.	35.88	1.49	53.46
	TOTAL				3,720.71
	Add Water Charges @ 1%				37.21
	TOTAL				3,757.92
	Add CPOH @ 15%				563.69
	Cost of 2.16 sqm				4,321.61
	Cost of 1 sqm				2,000.75
	Say				2,000.75

9.6 Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S.pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer-in-Charge and panelling with panels of:

9.6.1 12 mm thick plain grade - 1, medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT-I, IS :3087 marked, bonded with BWP type synthetic resin adhesive as per IS : 848 :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
7137	MATERIAL: Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick plain type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	1,780.00	4,236.40
9999	FITTINGS: Carriage of shutters	L.S.	29.64	1.49	44.16
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
0156	LABOUR: Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				4,714.46
	Add Water Charges @ 1%				47.14
	TOTAL				4,761.60
	Add CPOH @ 15%				714.24
	Cost of 2.38 sqm				5,475.84
	Cost of 1 sqm				2,300.77
	Say				2,300.75

9.6.2 12 mm thick pre-laminated particle board (decorative lamination on both sides) grade - 1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT - I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS : 12823, Grade 1, Type - II marked :

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
7139	MATERIAL: Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick both sides prelaminated type-I, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	1,930.00	4,593.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of shutters	L.S.	29.64	1.49	44.16
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				5,071.46
	Add Water Charges @ 1%				50.71
	TOTAL				5,122.17
	Add CPOH @ 15%				768.33
	Cost of 2.38 sqm				5,890.50
	Cost of 1 sqm				2,475.00
	Say				2,475.00

9.6.3 12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade - 1 medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823 Grade -1, Type II marked:

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7143	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i> MATERIAL: Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of 12 mm thick one side prelaminated type-I, and other side balancing lamination, medium density flat pressed three layer, graded particle board (FPT-I) as per IS:3087 bonded with BWP type synthetic resin adhesive, as per IS:848	sqm	2.38	1,850.00	4,403.00
9999	Carriage of shutters	L.S.	29.64	1.49	44.16
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4,881.06
	Add Water Charges @ 1%				48.81
	TOTAL				4,929.87
	Add CPOH @ 15%				739.48
	Cost of 2.38 sqm				5,669.35
	Cost of 1 sqm				2,382.08
	Say				2,382.10

9.7 Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:

9.7.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling...200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.66 sqm</i>				
	MATERIAL:				
	Panels				
	4x47.2x38.65x1.6cm = 0.0117cum+				
	Add for wastage @ 10% = 0.0012cum.				
	= 0.0129 cum				
1190	Second class teak wood in planks	10 cudm	12.90	720.00	928.80
2204	Carriage of timber	cum	0.0129	100.11	1.29
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				1,108.25
	Add Water Charges @ 1%				11.08
	TOTAL				1,119.33
	Add CPOH @ 15%				167.90
	Cost of 0.66 sqm				1,287.23
	Cost of 1 sqm				1,950.35
	Say				1,950.35

9.7.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm</i>				
	MATERIAL:				
2505	Hollock wood in planks	10 cudm	12.90	350.00	451.50
	Hollock wood panels 4x45.1x36.55cm = 0.0117 cum+				
	Add for wastage @ 10% = 0.0012cum.				
	Total = 0.0129 cum = 12.90 cudm				
2204	Carriage of timber	cum	0.0129	100.11	1.29
2504	Kiln seasoning of timber	cum	0.0129	680.00	8.77
9999	Chemical treatment	L.S.	8.97	1.49	13.37

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR:				
	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				653.09
	Add Water Charges @ 1%				6.53
	TOTAL				659.62
	Add CPOH @ 15%				98.94
	Cost of 0.66 sqm				758.56
	Cost of 1 sqm				1,149.33
	Say				1,149.35

9.7.3 Ply wood 5 ply, 9 mm thick

9.7.3.1 Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling.</i>				
	<i>200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm=0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2480	Ply wood 5 ply with teak ply on both faces 9 mm thick	sqm	0.80	960.00	768.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
0111	LABOUR:				
	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				948.87
	Add Water Charges @ 1%				9.49
	TOTAL				958.36
	Add CPOH @ 15%				143.75
	Cost of 0.66 sqm				1,102.11
	Cost of 1 sqm				1,669.86
	Say				1,669.85

9.7.3.2 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling.</i>				
	<i>200x108cm = 2.16 sqm</i>				
	<i>Panel area 4x45.1x36.55cm=0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.80	775.00	620.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
0111	LABOUR: Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				800.87
	Add Water Charges @ 1%				8.01
	TOTAL				808.88
	Add CPOH @ 15%				121.33
	Cost of 0.66 sqm				930.21
	Cost of 1 sqm				1,409.41
	Say				1,409.40

9.7.4 Ply wood 7 ply, 9 mm thick

9.7.4.1 Decorative plywood one side decorative veneer and commercial veneer on other face (Type 1) conforming to IS 1328 BWR Type

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm</i>				
	MATERIAL:				
	Plywood (9mm thick)				
	4x47.2x38.65cm = 0.73sqm				
	Add for wastage @ 10% = 0.07sqm				
	Total = 0.80 sqm				
2483	Ply wood 7 ply with teak ply on one face and commercial ply on another face 9 mm thick	sqm	0.80	845.00	676.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
0111	LABOUR: Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				856.87
	Add Water Charges @ 1%				8.57
	TOTAL				865.44
	Add CPOH @ 15%				129.82
	Cost of 0.66 sqm				995.26
	Cost of 1 sqm				1,507.97
	Say				1,507.95

9.7.5 Particle Board 12 mm thick

9.7.5.1 Plain particle board flat pressed, 3 layer or graded wood particle board medium density Grade I, IS : 3087 marked

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling. 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm</i>				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	0.80	325.00	260.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				440.87
	Add Water Charges @ 1%				4.41
	TOTAL				445.28
	Add CPOH @ 15%				66.79
	Cost of 0.66 sqm				512.07
	Cost of 1 sqm				775.86
	Say				775.85

9.7.5.2 Veneered flat pressed three layer or graded wood particle board with commercial veneering on both sides conforming to IS :3097, grade I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling.</i> 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm				
	MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
7468	Veneered particle board with commercial veneering on both sides 12 mm thick	sqm	0.80	480.00	384.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				564.87
	Add Water Charges @ 1%				5.65
	TOTAL				570.52
	Add CPOH @ 15%				85.58
	Cost of 0.66 sqm				656.10
	Cost of 1 sqm				994.09
	Say				994.10

9.7.5.3 Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side, Grade I, Type II, IS : 12823 marked

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling.</i> 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7477	MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	690.00	552.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
0111	LABOUR: Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				732.87
	Add Water Charges @ 1%				7.33
	TOTAL				740.20
	Add CPOH @ 15%				111.03
	Cost of 0.66 sqm				851.23
	Cost of 1 sqm				1,289.74
	Say				1,289.75

9.7.5.4 Pre-laminated particle board with decorative lamination on both sides, Grade I, Type II, IS :12823 marked

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7480	<i>Details of cost for shutters of a door with 2/3 rd panelling.</i> 200x108cm = 2.16 sqm Panel area 4x45.1x36.55cm=0.66sqm MATERIAL: Plywood (9mm thick) 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm Pre/aminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	0.80	720.00	576.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
0111	LABOUR: Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				756.87
	Add Water Charges @ 1%				7.57
	TOTAL				764.44
	Add CPOH @ 15%				114.67
	Cost of 0.66 sqm				879.11
	Cost of 1 sqm				1,331.98
	Say				1,332.00

9.7.6 Coir Veneer Board (conforming to IS 14842)

9.7.6.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling</i> <i>200x108cm = 2.16 sqm</i> <i>Panel area 4x45.1x36.55cm=0.66sqm</i> MATERIAL: Coir veneered board 12mm thick 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
7555	Coir veneered board 12 mm thick	sqm	0.80	622.00	497.60
9999	Carriage	L.S.	1.82	1.49	2.71
0111	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				678.47
	Add Water Charges @ 1%				6.78
	TOTAL				685.25
	Add CPOH @ 15%				102.79
	Cost of 0.66 sqm				788.04
	Cost of 1 sqm				1,194.00
	Say				1,194.00

9.7.7 Float glass panes

9.7.7.1 4 mm thick glass pane

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling</i> <i>200x108cm = 2.16 sqm</i> <i>Panel area 4x45.1x36.55cm=0.66sqm</i> MATERIAL: Coir veneered board 12mm thick 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.80	310.00	248.00
9999	Carriage	L.S.	1.82	1.49	2.71
0156	Carpenter (average)	day	0.57	287.00	163.59
0119	Glazier	day	0.15	273.00	40.95
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	25.47	1.49	37.95
	TOTAL				530.25
	Add Water Charges @ 1%				5.30
	TOTAL				535.55
	Add CPOH @ 15%				80.33
	Cost of 0.66 sqm				615.88
	Cost of 1 sqm				933.15
	Say				933.15

9.7.7.2 5.5 mm thick glass pane

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Details of cost for shutters of a door with 2/3 rd panelling</i> <i>200x108cm = 2.16 sqm</i> <i>Panel area 4x45.1x36.55cm=0.67sqm</i> MATERIAL: Coir veneered board 12mm thick 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	0.80	450.00	360.00
9999	Carriage	L.S.	1.82	1.49	2.71
0156	Carpenter (average)	day	0.57	287.00	163.59
0119	Glazier	day	0.15	273.00	40.95
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	25.47	1.49	37.95
	TOTAL				642.25
	Add Water Charges @ 1%				6.42
	TOTAL				648.67
	Add CPOH @ 15%				97.30
	Cost of 0.67 sqm				745.97
	Cost of 1 sqm				1,113.39
	Say				1,113.40

9.7.8 Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3 rd panelling</i> <i>200x108 cm = 2.16 sqm</i> <i>Panel area 4x45.1x36.55 cm=0.66 sqm</i> MATERIAL: Coir veneered board 12mm thick 4x47.2x38.65cm = 0.73sqm Add for wastage @ 10% = 0.07sqm Total = 0.80 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	0.80	760.00	608.00
9999	Carriage	L.S.	1.82	1.49	2.71
0112	Carpenter 2nd class	day	0.57	273.00	155.61
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				772.91
	Add Water Charges @ 1%				7.73
	TOTAL				780.64
	Add CPOH @ 15%				117.10
	Cost of 0.66 sqm				897.74
	Cost of 1 sqm				1,360.21
	Say				1,360.20

9.8 Deleted.

9.9 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.

9.9.1 Second class teak wood

9.9.1.1 35 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> 200x108cm = 2.16 sqm Teak wood (2nd class) Styles : 4x200x9.5x3.5cm = 0.027cum Rails: Top & intermediate rails 2x110.5x9.5x3.5cm = 0.008cum Lock and bottom rails 2x110.5x19.7x3.5cm = 0.015cum Beadings: 2x186.1x1.9x1.2cm = 0.001cum 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.053 cum. Add for wastage @ 10% = 0.005cum. Grand Total = 0.058 cum = 58 cudm				
1190	Second class teak wood in planks	10 cudm	58.00	720.00	4,176.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.058	100.11	5.81
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				5,496.94
	Add Water Charges @ 1%				54.97
	TOTAL				5,551.91
	Add CPOH @ 15%				832.79
	Cost of 2.16 sqm				6,384.70
	Cost of 1 sqm				2,955.88
	Say				2,955.90

9.9.1.2 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> 200x108cm = 2.16 sqm MATERIAL: Teak wood Styles : 4x200x9.5x3.0cm = 0.023cum+ Rails: Top & intermediate rails				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2x110.5x9.5x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.7x3.0cm = 0.013cum+ Beatings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 cum = 50 cudm				
1190	Second class teak wood in planks	10 cudm	50.00	720.00	3,600.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.05	100.11	5.01
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,920.14
	Add Water Charges @ 1%				49.20
	TOTAL				4,969.34
	Add CPOH @ 15%				745.40
	Cost of 2.16 sqm				5,714.74
	Cost of 1 sqm				2,645.71
	Say				2,645.70

9.9.2 Kiln seasoned and chemically treated hollock wood

9.9.2.1 35 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> 200x108cm = 2.16 sqm MATERIAL: (i) Hollock wood Styles : 4x200x9.5x3.5cm = 0.027 cum+ Rails Top & intermediate rails 2x110.5x9.5x3.50cm = 0.008cum+ Lock and bottom rails 2x110.5x19.7x3.50cm = 0.015cum+ Beatings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.053 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.058 cum or = 58 cudm				
2505	Hollock wood in planks	10 cudm	58.00	350.00	2,030.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2504	Kiln seasoning of timber	cum	0.058	680.00	39.44
9999	Chemical treatment	L.S.	9.10	1.49	13.56
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber LABOUR:	cum	0.058	100.11	5.81
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				3,403.94
	Add Water Charges @ 1%				34.04
	TOTAL				3,437.98
	Add CPOH @ 15%				515.70
	Cost of 2.16 sqm				3,953.68
	Cost of 1 sqm				1,830.41
	Say				1,830.40

9.9.2.2 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> <i>200x108cm = 2.16 sqm</i> (i) Hollock wood Styles : 4x200x9.50x3.0cm = 0.023cum+ Rails Top & intermediate rails 2x110.5x9.50x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.70x3.0cm = 0.013cum+ Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 = 50 cudm				
2505	Hollock wood in planks	10 cudm	50.00	350.00	1,750.00
2504	Kiln seasoning of timber	cum	0.05	680.00	34.00
9999	Chemical treatment	L.S.	9.10	1.49	13.56
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.05	100.11	5.01
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				3,117.70
	Add Water Charges @ 1%				31.18
	TOTAL				3,148.88
	Add CPOH @ 15%				472.33
	Cost of 2.16 sqm				3,621.21
	Cost of 1 sqm				1,676.49
	Say				1,676.50

9.9.3 Kiln seasoned selected planks of sheesham wood

9.9.3.1 35 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of a door (glazed)</i> <i>200 x 108 cm = 2.16 sqm</i>				
	MATERIAL :				
	(i) Hollock wood				
	Styles : 4 x 200 x 9.53 x 3.5cm = 0.27 cum +				
	Rails				
	Top & intermediate rails				
	2 x 110.5 x 9.5 x 3.50cm = 0.008cum +				
	Lock and bottom rails				
	2x110.5 x 19.7 x 3.50cm = 0.015cum +				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	58.00	650.00	3,770.00
2504	Kiln seasoning of timber	cum	0.058	680.00	39.44
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.058	100.11	5.81
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				5,130.38
	Add Water Charges @ 1%				51.30
	TOTAL				5,181.68
	Add CPOH @ 15%				777.25
	Cost of 2.16 sqm				5,958.93
	Cost of 1 sqm				2,758.76
	Say				2,758.75

9.9.3.2 30 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup-board (half glazed and half panelled) 200x108cm = 2.16 sqm</i> (i) Sheesham wood Styles : 4x200x9.50x3.0cm = 0.023cum+ Rails Top & intermediate rails 2x110.5x9.50x3.0cm = 0.006cum+ Lock and bottom rails 2x110.5x19.70x3.0cm = 0.013cum+ Beadings 2x186.1x1.9x1.2cm = 0.001cum+ 4x 171.70x 1.9x 1.2cm = 0.002cum. Total = 0.045 cum.+ Add for wastage @ 10% = 0.005cum. Grand Total = 0.050 = 50 cudm Panels : 2 x 48 x 41 x 1.6cm = 0.006cm + Sash bars 2 x 114 x 3.8 x 2.5cm = 0.003 cum + + 6 x 48 x 3.8 x 2.5cm = 0.003 cum + Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum Kiln seasoned selected sheesham wood planks Kiln seasoning of timber Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm) Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm Bright finished or black enameled mild steel screws 40 mm Bright finished or black enameled mild steel screws 20 mm Carriage of timber Carpenter (average) Glazier Beldar Sundries				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	50.00	650.00	3,250.00
2504	Kiln seasoning of timber	cum	0.05	680.00	34.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.05	100.11	5.01
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,604.14
	Add Water Charges @ 1%				46.04
	TOTAL				4,650.18
	Add CPOH @ 15%				697.53
	Cost of 2.16 sqm				5,347.71
	Cost of 1 sqm				2,475.79
	Say				2,475.80

9.10 Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt inges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge.

9.10.1 30 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
7151	MATERIAL: Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of sheet glass using 10 kg/ sqm glass panes	sqm	2.38	1,580.00	3,760.40
9999	Carriage of shutters	L.S.	29.64	1.49	44.16
0595	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
0156	LABOUR: Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				4,238.46
	Add Water Charges @ 1%				42.38
	TOTAL				4,280.84
	Add CPOH @ 15%				642.13
	Cost of 2.38 sqm				4,922.97
	Cost of 1 sqm				2,068.47
	Say				2,068.45

9.11 Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

9.11.1 5.5 mm thick instead of 4 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
2407	MATERIAL: Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.00	450.00	450.00
2406	Deduct Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	310.00	-310.00
	TOTAL				140.00
	Add Water Charges @ 1%				1.40
	TOTAL				141.40
	Add CPOH @ 15%				21.21
	Cost of 1 sqm				162.61
	Say				162.60

9.12 Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
7032	MATERIAL: Frosted glass sheet of nominal thickness 4 mm (weighing not less than 10 kg/sqm)	sqm	1.00	315.00	315.00
2406	Deduct Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	310.00	-310.00
	TOTAL				5.00
	Add Water Charges @ 1%				0.05
	TOTAL				5.05
	Add CPOH @ 15%				0.76
	Cost of 1 sqm				5.81
	Say				5.80

9.13 Deduct for providing pin headed glass panes instead of ordinary float glass panes weighing 4 mm thick in doors, windows and clerestory window shutters (Area of opening for glass panes excluding portion inside rebate shall be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
7451	MATERIAL: Deduct Glass sheet (Pin headed) 4 mm thick	sqm	-1.00	255.00	-255.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.00	310.00	310.00
	TOTAL				55.00
	Add Water Charges @ 1%				0.55
	TOTAL				55.55
	Add CPOH @ 15%				8.33
	Cost of 1 sqm				63.88
	Say				63.90

9.14 Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter of a door 200x108cm = 2.16 sqm</i>				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	100x60x2.5 mm Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0595	Deduct Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	-6.00	80.00	-48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	-2.00	45.00	-9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	-48.00	50.00	-24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	-8.00	25.00	-2.00
	TOTAL				181.20
	Add Water Charges @ 1%				1.81
	TOTAL				183.01
	Add CPOH @ 15%				27.45
	Cost of 2.16 sqm				210.46
	Cost of 1 sqm				97.44
	Say				97.45

9.15 Deduct for not providing hinges in doors, windows and clerestory window shutters with:

9.15.1 Stainless steel butt hinges with stainless steel screws

9.15.1.1 For 2nd class teak wood and other class of wood shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for fittings for shutter of size 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	TOTAL				264.20
	Add Water Charges @ 1%				2.64
	TOTAL				266.84
	Add CPOH @ 15%				40.03
	Cost of 2.16 sqm				306.87
	Cost of 1 sqm				142.07
	Say				142.05

9.15.2 ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws

9.15.2.1 For 2nd class teak wood and other class of wood shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hinges with screws for shutters of size 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	TOTAL				83.00
	Add Water Charges @ 1%				0.83
	TOTAL				83.83
	Add CPOH @ 15%				12.57
	Cost of 2.16 sqm				96.40
	Cost of 1 sqm				44.63
	Say				44.65

9.16 Providing and fixing 25 mm thick shutters for cup board etc. :

9.16.1 Panelled or panelled & glazed shutters :

9.16.1.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup-board (half glazed and half paneled) 200x108cm = 2.16 sqm</i>				
	MATERIAL:				
	Styles-4x200x8.0x2.5cm = 0.016 cum+ Rails-				
	Top rail-1x1 10.5x8.0x2.5cm = 0.0022cum+				
	Lock and bottom rail-2x110.5x8.0x2.5cm = 0.0044 cum.+				
	Panels-2x48x41 x 1.6cm = 0.006cum+				
	Sash bars-2x114x3.8x2.5cm = 0.003cum+				
	6x48x3.8x2.5cm = 0.003 cum+				
	Beading-16x92x 1.4x 1.2cm = 0.002cum				
	Total = 0.0366				
	Add for wastage @ 10% = 0.0037 cum.				
	Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.00	720.00	2,880.00
2204	Carriage of timber	cum	0.04	100.11	4.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.99	310.00	306.90
	Fittings				
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 nos	6.00	390.00	234.00
0586	Chromium plated Brass screws 40 mm	100 Nos	48.00	190.00	91.20
	LABOUR:				
0111	Carpenter 1 st class	day	2.40	301.00	722.40
0119	Glazier	day	0.18	273.00	49.14
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,538.07
	Add Water Charges @ 1%				45.38
	TOTAL				4,583.45
	Add CPOH @ 15%				687.52
	Cost of 2.16 sqm				5,270.97
	Cost of 1 sqm				2,440.26
	Say				2,440.25

9.16.1.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup board (half glazed and panelled)</i> <i>200x108=2.16sqm</i> MATERIAL: Styles-4x200x8.0x2.25cm =0.016 cum + Rails- Top rail 1 x 1 10.5x8.0x2.5 cm =0.0022 cum+ lock and bottom rail-2x10.5x8.0x2.5 0.0044 cum + Panels : 2 x 48 X 41 x 1.6 cm=0.006 cum + sash bars 2 x 114 x 3.8 x 2.5cm =0.003 cum+ 6 x 48 x 3.8 x 2.5 cm = 0.003 cum + Beading - 16 x 92 x 1.4 x 1.2cm = 0.002 cum Total=0.0336 Add for wastage @ 10% =0.0037 cum Grand Total = 0.0403 cum or 40 cudm				
1190	Second class teak wood in planks	10 cudm	40.00	720.00	2,880.00
2204	Carriage of timber	cum	0.04	100.11	4.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	0.99	310.00	306.90
	Fittings:				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	35.00	140.00
0586	Chromium plated Brass screws 40 mm	100 Nos	114.00	190.00	216.60
	LABOUR:				
0111	Carpenter 1 st class	day	2.40	301.00	722.40
0119	Glazier	day	0.18	273.00	49.14
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,569.47
	Add Water Charges @ 1%				45.69
	TOTAL				4,615.16
	Add CPOH @ 15%				692.27
	Cost of 2.16 sqm				5,307.43
	Cost of 1 sqm				2,457.14
	Say				2,457.15

9.16.2 Glazed shutters:

9.16.2.1 Second class teak wood including ISI marked anodised aluminium butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutter of cup-board</i> <i>200x108cm = 2.16 sqm</i> MATERIAL: (i) Teak wood second class Styles : 4x200x9.5x2.5 cm = 0.019 cum Rails Top & intermediate rails 2x110.5x9.5x2.5 cm = 0.006 cum Lock and bottom rails 2x110.5x19.7x2.5 cm = 0.011 cum Beadings- 2x186.1x1.9x1.2cm = 0.001cum+ 4x171.70x1.9x1.2cm = 0.002cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.039 cum. Add for wastage @ 10% = 0.004 cum. Grand Total = 0.043 cum. 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	720.00	3,096.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 nos	6.00	390.00	234.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	48.00	30.00	14.40
2204	Carriage of timber	cum	0.043	100.11	4.30
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,580.83
	Add Water Charges @ 1%				45.81
	TOTAL				4,626.64
	Add CPOH @ 15%				694.00
	Cost of 2.16 sqm				5,320.64
	Cost of 1 sqm				2,463.26
	Say				2,463.25

9.16.2.2 Second class teak wood including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a cup board (half Glazed and half panelled) 200x108cm=2.16 sqm</i>				
	MATERIAL:				
	Teak wood second class styles				
	4 x 200 x 9.5 x 2.5cm = 0.019 cum Rails -				
	Top & Intermediate rail 2x 110.5 x 9.5 x				
	2.5cm=0.006 cum				
	lock and bottom rail - 2 x 10.5 x19.7 x 2.5				
	cm=0.0011 cum				
	Total = 0.039 cum				
	Add for wastage @ 10 % =0.0004cum				
	Grand Total = 0.0403 cum or 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	720.00	3,096.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.27	310.00	393.70
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.00	35.00	140.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	114.00	30.00	34.20
2204	Carriage of timber	cum	0.043	100.11	4.30
	LABOUR:				
0156	Carpenter (average)	day	1.83	287.00	525.21
0119	Glazier	day	0.23	273.00	62.79
0114	Beldar	day	0.77	247.00	190.19
9999	Sundries	L.S.	40.43	1.49	60.24
	TOTAL				4,506.63
	Add Water Charges @ 1%				45.07
	TOTAL				4,551.70
	Add CPOH @ 15%				682.76
	Cost of 2.16 sqm				5,234.46
	Cost of 1 sqm				2,423.36
	Say				2,423.35

9.17 Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :

9.17.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 350x200cm = 7sqm</i>				
	MATERIAL:				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm.				
	Total = 7.35 sqm				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	7.35	325.00	2,388.75
9999	Carriage of particle board	L.S.	13.52	1.49	20.14
9999	Sundries and screws	L.S.	26.91	1.49	40.10
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				2,941.69
	Add Water Charges @ 1%				29.42
	TOTAL				2,971.11
	Add CPOH @ 15%				445.67
	Cost of 7 sqm				3,416.78
	Cost of 1 sqm				488.11
	Say				488.10

9.17.2 18 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 350x200cm = 7sqm</i>				
	MATERIAL:				
	12mm thick particle board = 7.00sqm.+				
	Add wastage @ 5% = 0.35 sqm				
	Total = 7.35 sqm				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	7.35	390.00	2,866.50
9999	Carriage of particle board	L.S.	19.76	1.49	29.44
9999	Sundries and screws	L.S.	26.91	1.49	40.10
	LABOUR:				
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				3,428.74
	Add Water Charges @ 1%				34.29
	TOTAL				3,463.03
	Add CPOH @ 15%				519.45
	Cost of 7 sqm				3,982.48
	Cost of 1 sqm				568.93
	Say				568.95

9.18 Providing and fixing Pre-laminated flat pressed 3 layer (medium density) particle board or graded wood particle board IS : 3087 marked, with one side decorative and other side balancing lamination Grade I, Type II exterior grade IS : 12823 marked, in shelves with screws and fittings wherever required, edges to be painted with polyurethane primer (fittings to be paid separately).

9.18.1 18 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 nos. 75x20cm shelves = 0.60 sqm</i>				
	MATERIAL:				
	18mm thick particle board = 4x75x20cm = 0.60sqm.+				
	Wastage @ 5% = 0.03sqm:				
	Total = 0.63 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	0.63	810.00	510.30
9999	Carriage of board	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	273.00	30.03
0114	Beldar	day	0.06	247.00	14.82
9999	Sundries, painting edges & screws	L.S.	7.80	1.49	11.62
	TOTAL				568.13
	Add Water Charges @ 1%				5.68
	TOTAL				573.81
	Add CPOH @ 15%				86.07
	Cost of 0.6 sqm				659.88
	Cost of 1 sqm				1,099.80
	Say				1,099.80

9.18.2 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 nos. 75x20cm shelves = 0.60 sqm</i>				
	MATERIAL:				
	25mm thick particle board = 4x75x20cm = 0.60sqm.+				
	Wastage @ 5% = 0.03sqm				
	Total = 0.63 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	0.63	880.00	554.40
9999	Carriage of board	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.11	273.00	30.03
0114	Beldar	day	0.06	247.00	14.82
9999	Sundries, painting edges & screws	L.S.	7.80	1.49	11.62

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				613.58
	Add Water Charges @ 1%				6.14
	TOTAL				619.72
	Add CPOH @ 15%				92.96
	Cost of 0.6 sqm				712.68
	Cost of 1 sqm				1,187.80
	Say				1,187.80

9.20 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

9.20.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0713	Block board construction flush door with teak wood ply on both faces 35 mm thick	sqm	2.20	1,600.00	3,520.00
9999	Carriage of door	L.S.	29.64	1.49	44.16
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	287.00	157.85
0114	Beldar	day	0.55	247.00	135.85
	TOTAL				4,089.46
	Add Water Charges @ 1%				40.89
	TOTAL				4,130.35
	Add CPOH @ 15%				619.55
	Cost of 2.2 sqm				4,749.90
	Cost of 1 sqm				2,159.05
	Say				2,159.05

9.20.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0714	Block board construction flush door with teak wood ply on both faces 30 mm thick	sqm	2.20	1,450.00	3,190.00
9999	Carriage of door	L.S.	29.64	1.49	44.16
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	287.00	157.85
0114	Beldar	day	0.55	247.00	135.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,759.46
	Add Water Charges @ 1%				37.59
	TOTAL				3,797.05
	Add CPOH @ 15%				569.56
	Cost of 2.2 sqm				4,366.61
	Cost of 1 sqm				1,984.82
	Say				1,984.80

9.20.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0715	Block board construction flush door with teak wood ply on both faces 25 mm thick	sqm	2.20	1,300.00	2,860.00
9999	Carriage of door L.S. 29.64 1.49 44.16				
0608	Fittings for a door 2.2x1.00m = 2.20 sqm				
	Nickel plated bright finished mild steel	metre	4.40	35.00	154.00
	piano hinges 1 mm thick 25 mm wide				
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	125.00	30.00	37.50
	LABOUR:				
	For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	287.00	157.85
0114	Beldar	day	0.55	247.00	135.85
	TOTAL				3,389.36
	Add Water Charges @ 1%				33.89
	TOTAL				3,423.25
	Add CPOH @ 15%				513.49
	Cost of 2.2 sqm				3,936.74
	Cost of 1 sqm				1,789.43
	Say				1,789.45

9.21 Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:

9.21.1 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
	MATERIAL:				
0717	Block board construction flush door with commercial ply on both faces 35 mm thick	sqm	2.20	1,100.00	2,420.00
9999	Carriage of door	L.S.	29.64	1.49	44.16
	Fittings for a door 2.2x1.0m = 2.20 sqm				
	Stainless steel butt hinges (heavyweight)	10 nos	6.00	230.00	138.00
	100x60x2.5 mm IS : 12817 marked				
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR: For fixing shutter and fittings	day	0.55	287.00	157.85
0114	Carpenter (average)	day	0.55	247.00	135.85
	Beldar				
	TOTAL				2,989.46
	Add Water Charges @ 1%				29.89
	TOTAL				3,019.35
	Add CPOH @ 15%				452.90
	Cost of 2.2 sqm				3,472.25
	Cost of 1 sqm				1,578.30
	Say				1,578.30

9.21.2 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
0718	MATERIAL: Block board construction flush door with commercial ply on both faces 30 mm thick	sqm	2.20	950.00	2,090.00
9999	Carriage of door	L.S.	29.64	1.49	44.16
	Fittings for a door 2.2x1.0m = 2.20 sqm				
8220	Stainless steel butt hinges (heavyweight)	10 nos	6.00	230.00	138.00
	100x60x2.5 mm IS : 12817 marked				
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
	LABOUR: For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	287.00	157.85
0114	Beldar	day	0.55	247.00	135.85
	TOTAL				2,659.46
	Add Water Charges @ 1%				26.59
	TOTAL				2,686.05
	Add CPOH @ 15%				402.91
	Cost of 2.2 sqm				3,088.96
	Cost of 1 sqm				1,404.07
	Say				1,404.05

9.21.3 25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.2 sqm</i>				
0719	MATERIAL: Block board construction flush door with commercial ply on both faces 25 mm thick	sqm	2.20	850.00	1,870.00
9999	Carriage of door	L.S.	29.64	1.49	44.16
	Fittings for a door 2.2x1.0m = 2.20 sqm				
0608	Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide	metre	4.40	35.00	154.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	125.00	30.00	37.50
	LABOUR: For fixing shutter and fittings				
0156	Carpenter (average)	day	0.55	287.00	157.85
0114	Beldar	day	0.55	247.00	135.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2,399.36
	Add Water Charges @ 1%				23.99
	TOTAL				2,423.35
	Add CPOH @ 15%				363.50
	Cost of 2.2 sqm				2,786.85
	Cost of 1 sqm				1,266.75
	Say				1,266.75

9.22 Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to I.S. 2202 (part I).

9.22.1 On one side only

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7307	<i>Details of cost for 1 sqm.</i> For flush door shutters Extra for providing teak veneering on one side instead of commercial veneering	sqm	1.00	320.00	320.00
	TOTAL				320.00
	Add Water Charges @ 1%				3.20
	TOTAL				323.20
	Add CPOH @ 15%				48.48
	Cost of 1 sqm				371.68
	Say				371.70

9.23 Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0752	<i>Details of cost for 1 sqm of door area</i> Block board construction flush door lipping	sqm of door area	1.00	280.00	280.00
	TOTAL				280.00
	Add Water Charges @ 1%				2.80
	TOTAL				282.80
	Add CPOH @ 15%				42.42
	Cost of 1 sqm				325.22
	Say				325.20

9.24 Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured) :

9.24.1 Rectangular or square

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0753	<i>Details of cost for 1 sqm of door area</i> Square vision panel in Block board construction flush door	sqm of door area	1.00	110.00	110.00
	TOTAL				110.00
	Add Water Charges @ 1%				1.10
	TOTAL				111.10
	Add CPOH @ 15%				16.66
	Cost of 1 sqm				127.76
	Say				127.75

9.24.2 Circular

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0754	<i>Details of cost for 1 sqm of door area</i> Circular vision panel in Block board construction flush door TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 1 sqm Say	sqm of door area	1.00	170.00	170.00 170.00 1.70 171.70 25.76 197.46 197.45

9.25 Extra if louvers (not exceeding 0.2 sqm) are provided in flush door shutters (overall area of door shutters to be measured).

9.25.1 Decorative type door

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0755	<i>Details of cost for 1 sqm of door area</i> Decorative type louvers in Block board construction flush door TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 1 sqm Say	sqm of door area	1.00	290.00	290.00 290.00 2.90 292.90 43.93 336.83 336.85

9.26 Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0757	<i>Details of cost for 1 sqm of door area</i> Rebate cutting in block board construction flush door TOTAL Add Water Charges @ 1% TOTAL Add CPOH @ 15% Cost of 1 sqm Say	sqm of door area	1.00	80.00	80.00 80.00 0.80 80.80 12.12 92.92 92.90

9.27 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:

9.27.1 35 mm thick shutters

9.27.1.1 With ISI marked M.S. pressed butt hinges bright finished of required size

9.27.1.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 16 sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				
	Lock and bottom rail 2x110.5x 19.7x3.5cm = 0.0152 cum.+				
	Beadings -				
	(2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.0464 cum.+				
	Add for wastage @ 10% = 0.005 cum.				
	= 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.40	720.00	3,700.80
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,091.56
	Add Water Charges @ 1%				50.92
	TOTAL				5,142.48
	Add CPOH @ 15%				771.37
	Cost of 2.16 sqm				5,913.85
	Cost of 1 sqm				2,737.89
	Say				2,737.90

9.27.1.1.2 - Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i>				
	(i) Hollock wood.				
	Styles				
	4x200x9.5x3.5cm = 0.0266cum+				
	Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	350.00	1,799.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
9999	Chemical Treatment	L.S.	8.97	1.49	13.37
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,238.08
	Add Water Charges @ 1%				32.38
	TOTAL				3,270.46
	Add CPOH @ 15%				490.57
	Cost of 2.16 sqm				3,761.03
	Cost of 1 sqm				1,741.22
	Say				1,741.20

9.27.1.1.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i> 2.00 x 1.08 m = 2.16 sqm MATERIAL: Sheesham Wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3,341.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,766.71
	Add Water Charges @ 1%				47.67
	TOTAL				4,814.38
	Add CPOH @ 15%				722.16
	Cost of 2.16 sqm				5,536.54
	Cost of 1 sqm				2,563.21
	Say				2,563.20

9.27.1.2 With ISI marked stainless steel butt hinges of required size

9.27.1.2.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i> MATERIAL: Second class Teak wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1190	Second class teak wood in planks Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm	10 cudm	51.40	720.00	3,700.80
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber LABOUR:	cum	0.0514	100.11	5.15
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,272.76
	Add Water Charges @ 1%				52.73
	TOTAL				5,325.49
	Add CPOH @ 15%				798.82
	Cost of 2.16 sqm				6,124.31
	Cost of 1 sqm				2,835.33
	Say				2,835.35

9.27.1.2.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i> Hollock wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x1 10.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x19.7x3.5cm = 0.0152 cum.+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	350.00	1,799.00
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
9999	Chemical treatment	L.S.	8.97	1.49	13.37
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber	cum	0.0514	100.11	5.15
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,419.28
	Add Water Charges @ 1%				34.19
	TOTAL				3,453.47
	Add CPOH @ 15%				518.02
	Cost of 2.16 sqm				3,971.49
	Cost of 1 sqm				1,838.65
	Say				1,838.65

9.27.1.2.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i> <i>2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3,341.00
2504	Kiln seasoning of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.0514	680.00	34.95
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber	cum	0.0514	100.11	5.15

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR: Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,947.91
	Add Water Charges @ 1%				49.48
	TOTAL				4,997.39
	Add CPOH @ 15%				749.61
	Cost of 2.16 sqm				5,747.00
	Cost of 1 sqm				2,660.65
	Say				2,660.65

9.27.2 30 mm thick shutters

9.27.2.1 With ISI marked M.S. pressed butt hinges bright finished of required size

9.27.2.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4x209x9.5x3cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3cm = 0.003cum+				
	Lock and bottom rail 2x110.5x9.7x3cm = 0.013 cum+				
	Beadings -				
	(2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum.				
	Total = 0.040 cum+				
	Add for wastage @ 10% = 0.004 cum.				
	Total = 0.44 cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	720.00	3,168.00
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire gauge 2x160x40cm = 1.28 sqm.+				
	Add wastage @ 10% = 0.13 sqm.				
	Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4,486.76
	Add Water Charges @ 1%				44.87
	TOTAL				4,531.63
	Add CPOH @ 15%				679.74
	Cost of 2.16 sqm				5,211.37
	Cost of 1 sqm				2,412.67
	Say				2,412.65

9.27.2.1.2 - Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i> <i>2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Hollock wood Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total = 0.44 cum. Say 44				
2505	Hollock wood in planks	10 cudm	44.00	350.00	1,540.00
2204	Carriage of timber	cum	0.044	100.11	4.40
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
9999	Chemical treatment L.S. 9.10 1.49 13.56 Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				2,902.24
	Add Water Charges @ 1%				29.02
	TOTAL				2,931.26
	Add CPOH @ 15%				439.69
	Cost of 2.16 sqm				3,370.95
	Cost of 1 sqm				1,560.63
	Say				1,560.60

9.27.2.1.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i> <i>2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.44 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2,860.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,208.68
	Add Water Charges @ 1%				42.09
	TOTAL				4,250.77
	Add CPOH @ 15%				637.62
	Cost of 2.16 sqm				4,888.39
	Cost of 1 sqm				2,263.14
	Say				2,263.15

9.27.2.2 With ISI marked stainless steel butt hinges of required size

9.27.2.2.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m</i> <i>= 2.16sqm</i> MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Teak wood (2nd class) Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total = 0.044 cum. Say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	720.00	3,168.00
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,667.96
	Add Water Charges @ 1%				46.68
	TOTAL				4,714.64
	Add CPOH @ 15%				707.20
	Cost of 2.16 sqm				5,421.84
	Cost of 1 sqm				2,510.11
	Say				2,510.10

9.27.2.2.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i> Hollock wood Styles 4x209x9.5x3cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2x110.5x19.7x3cm = 0.013 cum+ Beadings - (2x312+2x 150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.040 cum+ Add for wastage @ 10% = 0.004 cum. Total= 0.044 cum. Say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	350.00	1,540.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Chemical treatment	L.S.	8.97	1.49	13.37
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,083.25
	Add Water Charges @ 1%				30.83
	TOTAL				3,114.08
	Add CPOH @ 15%				467.11
	Cost of 2.16 sqm				3,581.19
	Cost of 1 sqm				1,657.96
	Say				1,657.95

9.27.2.2.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters</i> <i>2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2,860.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire gauge 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.41	230.00	324.30

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,389.88
	Add Water Charges @ 1%				43.90
	TOTAL				4,433.78
	Add CPOH @ 15%				665.07
	Cost of 2.16 sqm				5,098.85
	Cost of 1 sqm				2,360.58
	Say				2,360.60

9.28 Deleted.

9.29 Deleted.

9.30 Deleted.

9.31 Providing and fixing wire gauge laminated veneer lumber shutters conforming to IS : 14616, and as per TADS 15 :2001 (Part B) using galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm as per IS :1568 for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, as per directions of Engineer-in-charge:

9.31.1 35 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
	MATERIAL:				
7154	Factory made 35 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.38	1,630.00	3,879.40
9999	Carriage of door	L.S.	29.64	1.49	44.16
	Fittings				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR:				
	Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				4,357.46
	Add Water Charges @ 1%				43.57
	TOTAL				4,401.03
	Add CPOH @ 15%				660.15
	Cost of 2.38 sqm				5,061.18
	Cost of 1 sqm				2,126.55
	Say				2,126.55

9.31.2 30 mm thick shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 220x108cm = 2.38sqm</i>				
7155	MATERIAL:				
	Factory made 30 mm thick shutters with laminated veneer lumber styles & rails as per TADS 15:1995 and panels of galvanised wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm	sqm	2.38	1,385.00	3,296.30
9999	Carriage of shutters	L.S.	29.64	1.49	44.16
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.52	287.00	149.24
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries	L.S.	35.88	1.49	53.46
	TOTAL				3,774.36
	Add Water Charges @ 1%				37.74
	TOTAL				3,812.10
	Add CPOH @ 15%				571.81
	Cost of 2.38 sqm				4,383.91
	Cost of 1 sqm				1,841.98
	Say				1,842.00

9.32 Providing 50x50x50 mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement : 3 fine sand) and making good the walls etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100nos</i>				
	MATERIAL:				
	Teak wood (2nd class) 100x(50x50x50)mm = 0.0125cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add wastage @ 10% = 0.0013 cum. Total =0.0138 cum. Say 14 cudm				
1189	Second class teak wood in scantling	10 cudm	14.00	640.00	896.00
2204	Carriage of timber	cum	0.014	100.11	1.40
3.3	Cement mortar 1:3(1 cement: 3 fine sand) Rate as per Item Number 3.3 of SH: Mortars	cum	0.002	3,631.95	7.26
	LABOUR:				
0112	Carpenter 2nd class	day	0.75	273.00	204.75
0124	Mason (brick layer) 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	0.75	247.00	185.25
	TOTAL				1,499.41
	Add Water Charges @ 1%				14.99
	TOTAL				1,514.40
	Add CPOH @ 15%				227.16
	Cost of 100 nos				1,741.56
	Cost of each				17.42
	Say				17.40

9.33 Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanised M.S. screws including drilling holes in masonry work / C.C / R.C.C. and making good etc. complete.

9.33.1 25 mm long

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i> MATERIAL:				
7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	10.00	8.00	80.00
9999	Labour for drilling holes and making good etc.	L.S.	20.80	1.49	30.99
	TOTAL				110.99
	Add Water Charges @ 1%				1.11
	TOTAL				112.10
	Add CPOH @ 15%				16.81
	Cost of 10 nos				128.91
	Cost of each				12.89
	Say				12.90

9.33.2 32 mm long

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i> MATERIAL:				
7313	Expandable fastener with plastic sleeve and M.S. screws : 32 mm long	each	10.00	9.00	90.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.49	38.74
	TOTAL				128.74
	Add Water Charges @ 1%				1.29
	TOTAL				130.03
	Add CPOH @ 15%				19.50
	Cost of 10 nos				149.53
	Cost of each				14.95
	Say				14.95

9.33.3 40 mm long

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
7314	MATERIAL: Expandable fastener with plastic sleeve and M.S. screws : 40 mm long	each	10.00	12.00	120.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.49	38.74
	TOTAL				158.74
	Add Water Charges @ 1%				1.59
	TOTAL				160.33
	Add CPOH @ 15%				24.05
	Cost of 10 nos				184.38
	Cost of each				18.44
	Say				18.45

9.33.4 50 mm long

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
7315	MATERIAL: Expandable fastener with plastic sleeve and M.S. screws. 50 mm long	each	10.00	14.00	140.00
9999	Labour for drilling holes and making good etc.	L.S.	26.00	1.49	38.74
	TOTAL				178.74
	Add Water Charges @ 1%				1.79
	TOTAL				180.53
	Add CPOH @ 15%				27.08
	Cost of 10 nos				207.61
	Cost of each				20.76
	Say				20.75

9.34 Providing and fixing 2nd class teak wood plain lining tongued and grooved, including wooden plugs complete with necessary screws and priming coat on unexposed surface.

9.34.1 40 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood (2nd class) 10x0.04m = 0.40 cum				
	Add wastage @ 10% = 0.04 cum.				
	Total = 0.44 cum. Say 440 cudm				
1190	Second class teak wood in planks	10 cudm	440.00	720.00	31,680.00
1231	Extra for selected planks of second class teakwood	10 cudm	440.00	115.00	5,060.00
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00(A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.1	Priming coat Rate as per Item Number 13.50.1 of SH:	sqm	10.00	25.85	258.50(A)
2204	Finishing Carriage of timber	cum	0.44	100.11	44.05
	LABOUR:				
	For planning and fixing				
0111	Carpenter 1 st class	day	2.15	301.00	647.15
0114	Beldar	day	1.62	247.00	400.14
9999	Sundries & screws etc.	L.S.	53.82	1.49	80.19
	TOTAL 39,127.03				
	Add Water Charges @ 1% except on A i.e on (39,127.03 - 1,215.50 =) 37,911.53				379.12
	TOTAL				39,506.15
	Add CPOH @ 15% except on A i.e on (39,506.15 - 1,215.50 =) 38,290.65				5,743.60
	Cost of 10 sqm				45,249.75
	Cost of 1 sqm				4,524.98
	Say				4,525.00

9.34.2 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood 2nd class 10x0.025 = 0.25cum+				
	Add wastage @ 10% = 0.025 cum.				
	Total = 0.275 cum. Say 275 cudm				
1190	Second class teak wood in planks	10 cudm	275.00	720.00	19,800.00
1231	Extra for selected planks of second class teakwood	10 cudm	275.00	115.00	3,162.50
2204	Carriage of timber	cum	0.275	100.11	27.53
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00(A)
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH:	sqm	10.00	25.85	258.50(A)
	Finishing				
	LABOUR:				
0111	Carpenter 1 st class	day	2.15	301.00	647.15
0114	Beldar	day	1.62	247.00	400.14
9999	Sundries & screws etc.	L.S.	53.82	1.49	80.19
	TOTAL				25,333.01
	Add Water Charges @ 1% except on A i.e on (25,333.01 - 1,215.50 =) 24,117.51				241.18
	TOTAL				25,574.19
	Add CPOH @ 15% except on A i.e on (25,574.19 - 1,215.50 =) 24,358.69				3,653.80
	Cost of 10 sqm				29,227.99
	Cost of 1 sqm				2,922.80
	Say				2,922.80

9.34.3 20 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak wood (2nd class) 10x0.02m = 0.20cum				
	Add wastage @ 10% = 0.02 cum.				
	Total = 0.22 cum. Say 220 cudm				
1190	Second class teak wood in planks	10 cudm	220.00	720.00	15,840.00
1231	Extra for selected planks of second class teakwood	10 cudm	220.00	115.00	2,530.00
2204	Carriage of timber	cum	0.22	100.11	22.02
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00 (A)
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50(A)
	LABOUR:				
0111	Carpenter 1 st class	day	1.08	301.00	325.08
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.08	247.00	266.76
9999	Sundries & screws etc.	L.S.	53.82	1.49	80.19
	TOTAL				20,497.95
	Add Water Charges @ 1% except on A i.e on (20,497.95 - 1,215.50 =) 19,282.45				192.82
	TOTAL				20,690.77
	Add CPOH @ 15% except on A i.e on (20,690.77 - 1,215.50 =) 19,475.27				2,921.29
	Cost of 10 sqm				23,612.06
	Cost of 1 sqm				2,361.21
	Say				2,361.20

9.34.4 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	Wood:				
	Second class teak wood 10x0.012 = 0.12 cum				
	Add wastage @ 10% = 0.012 cum				
	Total = 0.132 cum. Say 132 cudm				
1190	Second class teak wood in planks	10 cudm	132.00	720.00	9,504.00
1231	Extra for selected planks of second class teakwood	10 cudm	132.00	115.00	1,518.00
2204	Carriage of timber	cum	0.132	100.11	13.21
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00(A)
	LABOUR:				
0111	Carpenter 1 st class	day	1.08	301.00	325.08
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.08	247.00	266.76
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries & screws etc.	L.S.	53.82	1.49	80.19
	TOTAL				13,141.14
	Add Water Charges @ 1% except on A i.e on (13,141.14 - 1,215.50 =) 11,925.64				119.26
	TOTAL				13,260.40
	Add CPOH @ 15% except on A i.e on (13,260.40 - 1,215.50 =) 12,044.90				1,806.74
	Cost of 10 sqm				15,067.14
	Cost of 1 sqm				1,506.71
	Say				1,506.70

9.35 Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS : 12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete :

9.35.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Particle board (three layer medium density) 12mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7474	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	11.00	690.00	7,590.00
9999	Carriage of particle board	L.S.	13.52	1.49	20.14
9999	Sundries & screws etc.	L.S.	26.91	1.49	40.10
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50(A)
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	273.00	349.44
0114	Beldar	day	1.43	247.00	353.21
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				9,161.39
	Add Water Charges @ 1% except on A i.e on (9,161.39 - 258.50 =) 8,902.89				89.03
	TOTAL				9,250.42
	Add CPOH @ 15% except on A i.e on (9,250.42 - 258.50 =) 8,991.92				1,348.79
	Cost of 10 sqm				10,599.21
	Cost of 1 sqm				1,059.92
	Say				1,059.90

9.35.2 18 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Particle board (three layer medium density) 18 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	11.00	810.00	8,910.00
9999	Carriage of particle board	L.S.	13.52	1.49	20.14
9999	Sundries & screws etc.	L.S.	26.91	1.49	40.10
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50(A)
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	273.00	349.44
0114	Beldar	day	1.43	247.00	353.21
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				10,481.39
	Add Water Charges @ 1% except on A i.e on (10,481.39 - 258.50 =) 10,222.89				102.23
	TOTAL				10,583.62
	Add CPOH @ 15% except on A i.e on (10,583.62 - 258.50 =) 10,325.12				1,548.77
	Cost of 10 sqm				12,132.39
	Cost of 1 sqm				1,213.24
	Say				1,213.25

9.35.3 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Particle board (three layer medium density) 25 mm thick = 10 sqm.+				
	Add wastage @ 10% = 1 sqm.				
	Total = 11 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	11.00	880.00	9,680.00
9999	Carriage of particle board	L.S.	13.52	1.49	20.14
9999	Sundries & screws etc.	L.S.	26.91	1.49	40.10
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50(A)
	LABOUR:				
0112	Carpenter 2nd class	day	1.28	273.00	349.44
0114	Beldar	day	1.43	247.00	353.21
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
	TOTAL				11,251.39
	Add Water Charges @ 1% except on A i.e on (11,251.39 - 258.50 =) 10,992.89				109.93
	TOTAL				11,361.32

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (11,361.32 - 258.50 =) 11,102.82				1,665.42
	Cost of 10 sqm				13,026.74
	Cost of 1 sqm				1,302.67
	Say				1,302.65

9.36 Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.

9.36.1 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 no. battens of size 500cmx50mmx25mm (31.25 cudm)</i>				
	MATERIAL:				
	Hollock wood-				
	5x5.00x0.50x0.025 = 0.03125 cum				
	Add wastage @ 5% = 0.00156 cum				
	Total = 0.03281 cum. Say 33 cudm				
2505	Hollock wood in planks	10 cudm	33.00	350.00	1,155.00
2204	Carriage of timber	cum	0.033	100.11	3.30
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	6.76	1.49	10.07
	Painting with ready mixed priming coat on ground 5x500x15 cm =3.75 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	3.75	25.85	96.94(A)
7048	Rawl plug 50 mm (designation 10 nos)	each	55.00	10.00	550.00
9999	Labour for drilling holes steel tape sundries	L.S.	71.50	1.49	106.54
	TOTAL				2,284.60
	Add Water Charges @ 1% except on A i.e on (2,284.60 - 96.94 =) 2,187.66				21.88
	TOTAL				2,306.48
	Add CPOH @ 15% except on A i.e on (2,306.48 - 96.94 =) 2,209.54				331.43
	Cost of 0.03125 cum				2,637.91
	Cost of 1 cum				84,413.12
	Say				84,413.10

9.37 Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :

9.37.1 Decorative veneer facings of approved manufacture

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	MATERIAL:				
	Teak ply wood = 10sqm.+				
	Add for wastage @ 20% = 2 sqm.				
	Total = 12 sqm				
0759	Decorative plywood 4 mm	sqm	12.00	400.00	4,800.00
9999	Carriage of ply wood	L.S.	5.46	1.49	8.14
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00 (A)
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	301.00	1,143.80
0114	Beldar	day	4.60	247.00	1,136.20
0130	Mistry	day	0.60	301.00	180.60
9999	20mm nails without head for fixing ply	L.S.	53.82	1.49	80.19
	Painting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50 (A)
	TOTAL				8,564.43
	Add Water Charges @ 1% except on A i.e on (8,564.43 - 1,215.50 =) 7,348.93				73.49
	TOTAL				8,637.92
	Add CPOH @ 15% except on A i.e on (8,637.92 - 1,215.50 =) 7,422.42				1,113.36
	Cost of 10 sqm				9,751.28
	Cost of 1 sqm				975.13
	Say				975.15

9.38 Providing and fixing 4 mm thick coir veneer board, ISI marked IS : 14842, plain lining with necessary screws, priming coat on unexposed surface etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm.</i>				
	Coir veneered board 4mm thick = 10sqm.+				
	Add for wastage @ 20% = 2 sqm.				
	Total = 12 sqm				
7552	Coir veneered board 4 mm thick	sqm	12.00	272.00	3,264.00
9999	Carriage of coir veneered board	L.S.	5.46	1.49	8.14
	Second class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	55.00	17.40	957.00 (A)
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	301.00	1,143.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	4.60	247.00	1,136.20
0130	Mistry	day	0.60	301.00	180.60
9999	20mm nails without head for fixing ply	L.S.	53.82	1.49	80.19
	Priming coatPainting with ready mixed priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	10.00	25.85	258.50(A)
	TOTAL				7,028.43
	Add Water Charges @ 1% except on A i.e on (7,028.43 - 1,215.50 =) 5,812.93				58.13
	TOTAL				7,086.56
	Add CPOH @ 15% except on A i.e on (7,086.56 - 1,215.50 =) 5,871.06				880.66
	Cost of 10 sqm				7,967.22
	Cost of 1 sqm				796.72
	Say				796.70

9.39 Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked, with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete :

9.39.1 18 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm</i>				
	MATERIAL:				
	Teak shade prelaminated Particle board (three layer medium density) = 6.0 sqm.+				
	Add wastage @ 10% = 0.6sqm.				
	Total = 6.6 sqm				
7478	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 18 mm thick	sqm	6.60	810.00	5,346.00
9999	Carriage of particle board	L.S.	8.11	1.49	12.08
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1,020.00
9999	Labour for drilling holes	L.S.	130.00	1.49	193.70
	LABOUR:				
0112	Carpenter 2nd class	day	0.77	273.00	210.21
0114	Beldar	day	0.86	247.00	212.42
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.49	80.19
	Priming coatPainting with ready mixed priming coat				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.00	25.85	155.10 (A)
	TOTAL				7,229.70
	Add Water Charges @ 1% except on A i.e on (7,229.70 - 155.10 =) 7,074.60				70.75
	TOTAL				7,300.45
	Add CPOH @ 15% except on A i.e on (7,300.45 - 155.10 =) 7,145.35				1,071.80
	Cost of 6 sqm				8,372.25
	Cost of 1 sqm				1,395.38
	Say				1,395.40

9.39.2 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for skirting 200mm wide and 30m long Area = 0.2x30= 6 sqm</i>				
	MATERIAL:				
	Teak shade pre-laminated Particle board (three layer medium density) = 6.0 sqm.+ Add wastage @ 10% = 0.6sqm. Total = 6.6 sqm				
7479	Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 25 mm thick	sqm	6.60	880.00	5,808.00
9999	Carriage of particle board	L.S.	8.11	1.49	12.08
7048	Rawl plug 50 mm (designation 10 nos)	each	102.00	10.00	1,020.00
9999	Labour for drilling holes	L.S.	130.00	1.49	193.70
	LABOUR:				
	For dressing and fixing particle board to skirting				
0112	Carpenter 2nd class	day	0.77	273.00	210.21
0114	Beldar	day	0.86	247.00	212.42
9999	Sundries (Screws, sand paper)	L.S.	53.82	1.49	80.19
	Painting with ready mixed priming coat at back				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	6.00	25.85	155.10 (A)
	TOTAL				7,691.70
	Add Water Charges @ 1% except on A i.e on (7,691.70 - 155.10 =) 7,536.60				75.37
	TOTAL				7,767.07
	Add CPOH @ 15% except on A i.e on (7,767.07 - 155.10 =) 7,611.97				1,141.80
	Cost of 6 sqm				8,908.87
	Cost of 1 sqm				1,484.81
	Say				1,484.80

9.40 Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:

9.40.1 2nd class teak wood

9.40.1.1 50x12 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Teak wood IInd class in planks 500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm				
1190	Second class teak wood in planks	10 cudm	3.30	720.00	237.60
2204	Carriage of timber	cum	0.0033	100.11	0.33
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.37	25.85	9.56 (A)
	LABOUR:				
0111	For planing, fixing and making design Carpenter 1 st class	day	0.53	301.00	159.53
	TOTAL				425.02
	Add Water Charges @ 1% except on A i.e on (425.02 - 9.56 =) 415.46				4.15
	TOTAL				429.17
	Add CPOH @ 15% except on A i.e on (429.17 - 9.56 =) 419.61				62.94
	Cost of 5 metre				492.11
	Cost of 1 metre				98.42
	Say				98.40

9.40.1.2 50 x 20 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Teak wood IInd class in planks 500x5x2.0cm = 0.005cum				
	Add for wastage @ 10% = 0.0005 cum				
	Total = 0.0055 cum. Say 5.5 cudm				
1190	Second class teak wood in planks	10 cudm	5.50	720.00	396.00
2204	Carriage of timber	cum	0.0055	100.11	0.55
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.45	25.85	11.63(A)
	LABOUR:				
	For planing, fixing and making design				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.53	301.00	159.53
	TOTAL				585.71
	Add Water Charges @ 1% except on A i.e on (585.71 - 11.63 =) 574.08				5.74
	TOTAL				591.45
	Add CPOH @ 15% except on A i.e on (591.45 - 11.63 =) 579.82				86.97
	Cost of 5 metre				678.42
	Cost of 1 metre				135.68
	Say				135.70

9.40.2 Kiln seasoned and chemically treated hollock wood

9.40.2.1 50x12 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Hollock wood				
	500x5x1.2cm = 0.003 cum+				
	Add for wastage @ 10% = 0.0003 cum.				
	Total = 0.0033 cum. Say 3.3 cudm				
2505	Hollock wood in planks	10 cudm	3.30	350.00	115.50
2204	Carriage of timber	cum	0.0033	100.11	0.33
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
	Painting with priming coat Area = 500(5+1.2+1.2) = 0.37 sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH: Finishing	sqm	0.37	25.85	9.56 (A)
	LABOUR:				
	For planing, fixing and making design				
0111	Carpenter 1 st class	day	0.53	301.00	159.53
	TOTAL				302.92
	Add Water Charges @ 1% except on A i.e on (302.92 - 9.56 =) 293.36				2.93
	TOTAL				305.85
	Add CPOH @ 15% except on A i.e on (305.85 - 9.56 =) 296.29				44.44
	Cost of 5 metre				350.29
	Cost of 1 metre				70.06
	Say				70.05

9.40.2.2 50x20 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading for a window of size 140x110cm i.e. 500cm long (5 metre)</i>				
	MATERIAL:				
	Hollock wood 500x5x200cm = 0.005 cum+				
	Add for wastage @ 10% = 0.0005 cum.				
	Total = 0.0055 cum. Say 5.5 cudm				
2505	Hollock wood in planks	10 cudm	5.50	350.00	192.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2204	Carriage of timber	cum	0.0055	100.11	0.55
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	36.00	50.00	18.00
13.50.1	Painting with priming coat Area = 500(5+2+2) = 0.45 sqm Rate as per Item Number 13.50.1 of SH:	sqm	0.45	25.85	11.63 (A)
0111	Finishing LABOUR: For planing, fixing and making design Carpenter 1 st class	day	0.53	301.00	159.53
	TOTAL				382.21
	Add Water Charges @ 1% except on A i.e on (382.21 - 11.63 =) 370.58				3.71
	TOTAL				385.92
	Add CPOH @ 15% except on A i.e on (385.92 - 11.63 =) 374.29				56.14
	Cost of 5 metre				442.06
	Cost of 1 metre				88.41
	Say				88.40

9.41 Providing and fixing plain jaffri of 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with :

9.41.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a jaffri 200x110cm = 2.2sqm</i>				
	MATERIAL:				
	Teakwood IInd class Jaffri 210x120x1.0cm = 0.025cum +				
	Beading 660x5x1.2cm = 0.004cum				
	Total = 0.029 cum +				
	Add wastage @ 10% = 0.003 cum				
	Total = 0.032 cum. Say 32 cudm				
1190	Second class teak wood in planks	10 cudm	32.00	720.00	2,304.00
2204	Carriage of timber	cum	0.032	100.11	3.20
	LABOUR:				
0111	Carpenter 1 st class	day	0.75	301.00	225.75
0112	Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	0.50	247.00	123.50
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,009.91
	Add Water Charges @ 1%				30.10
	TOTAL				3,040.01
	Add CPOH @ 15%				456.00
	Cost of 2.2 sqm				3,496.01
	Cost of 1 sqm				1,589.10
	Say				1,589.10

- 9.42 Providing and fixing 18 mm thick, 150 mm wide pelmet of flat pressed 3 layer or graded wood particle board medium density grade I, IS : 3087 marked, including top cover of 6 mm commercial ply wood conforming to IS: 303 BWR grade, nickel plated M.S. pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets, including fixing with 25x3 mm M.S. flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1x1.7x0.15=0.255sqm +				
	Sides-2x0. 15x0.15= 0.045sqm				
	Total = 0.300sqm +				
	Add wastage @ 5% = 0.015sqm				
	Total = 0.315sqm. Say 0.32 sqm.				
7055	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS : 3087 - 18 mm thick	sqm	0.32	390.00	124.80
	6mm thick commercial ply wood				
	Top- 1x1.7x0.15= 0.255sqm +				
	Add wastage @ 5% = 0.013 sqm.				
	= 0.268 sqm. Say 0.27 sqm				
2412	Ply wood 5 ply with commercial ply on both faces 6 mm thick	sqm	0.27	340.00	91.80
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.65	67.00	110.55
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.00	6.00	12.00
9999	Carriage of material	L.S.	0.52	1.49	0.77
9999	M.S. flat 25 x 3 mm and 10cm long over brackets	L.S.	8.06	1.49	12.01
2505	Hollock wood in planks	1 0 cudm	0.32	350.00	11.20
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.18	273.00	49.14
0114	Beldar	day	0.18	247.00	44.46
0130	Mistry	day	0.11	301.00	33.11
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				513.91
	Add Water Charges @ 1%				5.14
	TOTAL				519.05
	Add CPOH @ 15%				77.86
	Cost of 2 metre				596.91
	Cost of 1 metre				298.46
	Say				298.45

- 9.43 Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842, including top cover of 6 mm coir veneer board, nickle plated M.S. Pipe 20 mm dia. (heavy type) curtain rod with nickel plated brackets, including**

fixing with 25x3 mm M.S. Flat 10 cm long fixed to pelmet with hollock wood cleats of size 100 mm x 40 mm x 40 mm on both inner side of pelmet and rawl plugs 75 mm long etc. all complete

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick Coir veneered board				
	Front-1 x 1.7x0.15= 0.255sqm +				
	Sides-2x0.15x0.15= 0.045sqm				
	Total = 0.300sqm +				
	Add wastage @5% = 0.015sqm				
	Total = 0.315sqm. Say 0.32 sqm				
7556	Coir veneered board 18 mm thick	sqm	0.32	950.00	304.00
	6mm thick commercial ply wood				
	Top - 1 x 1.7x0.15= 0.255sqm +				
	Add wastage @ 5% = 0.013 sqm				
	Total = 0.268 sqm. Say 0.27 sqm				
7553	Coir veneered board 6 mm thick	sqm	0.27	367.00	99.09
7034	Nickel plated M.S. pipe 20 mm dia	metre	1.65	67.00	110.55
7035	Nickel plated M.S. Brackets for curtain rod	each	2.00	6.00	12.00
	20 mm				
9999	Carriage of material	L.S.	0.52	1.49	0.77
9999	M.S. flat 25 x 3 mm and 10cm long over	L.S.	8.06	1.49	12.01
	brackets				
2505	Hollock wood in planks	10 cudm	0.32	350.00	11.20
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.18	273.00	49.14
0114	Beldar	day	0.18	247.00	44.46
0130	Mistry	day	0.11	301.00	33.11
9999	Sundries	L.S.	2.73	1.49	4.07
	TOTAL				700.40
	Add Water Charges @ 1%				7.00
	TOTAL				707.40
	Add CPOH @ 15%				106.11
	Cost of 2 metre				813.51
	Cost of 1 metre				406.76
	Say				406.75

9.44 Extra for using veneered particle board conforming to IS: 3097 Grade I, in item of pelmet 18 mm thick 150 mm wide.

9.44.1 Non decorative veneer on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a pelmet 2m long.</i>				
	MATERIAL:				
	(i) 18mm thick particle board (medium density exterior grade)				
	Front-1x1.7x0.15= 0.255sqm.+				
	Sides-2x0.15x0.15= 0.045sqm.				
	Total = 0.300sqm.+				
	Add wastage @5% = 0.015sqm.				
	Total = 0.315sqm. Say 0.32 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	0.32	155.00	49.60
	TOTAL				49.60
	Add Water Charges @ 1%				0.50
	TOTAL				50.10
	Add CPOH @ 15%				7.52
	Cost of 2 metre				57.62
	Cost of 1 metre				28.81
	Say				28.80

9.44.2 Particle board with decorative veneering on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0348	<i>Details of cost for a pelmet 2m long.</i> MATERIAL: (i) 18mm thick particle board (medium density exterior grade) Front- $1 \times 1.7 \times 0.15 = 0.255 \text{sqm.} +$ Sides- $2 \times 0.15 \times 0.15 = 0.045 \text{sqm.}$ Total = $0.300 \text{sqm.} +$ Add wastage @5% = 0.015sqm. Total = 0.315sqm. Say 0.32 sqm Extra for veneered particle board with Teak veneering both sides	sqm	0.32	455.00	145.60
	TOTAL				145.60
	Add Water Charges @ 1%				1.46
	TOTAL				147.06
	Add CPOH @ 15%				22.06
	Cost of 2 metre				169.12
	Cost of 1 metre				84.56
	Say				84.55

9.45 Providing and fixing teak wood lipping of size 25x3 mm in pelmet.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7049	<i>Details of cost for 10 metre.</i> MATERIAL: Teak wood lipping of size 25x3 mm in pelmets	metre	10.00	20.00	200.00
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.25	247.00	61.75
	TOTAL				330.00
	Add Water Charges @ 1%				3.30
	TOTAL				333.30
	Add CPOH @ 15%				50.00
	Cost of 10 metre				383.30
	Cost of 1 metre				38.33
	Say				38.35

9.46 Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:

9.46.1 12 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	2.00	180.00	360.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P.brass screws	L.S.	4.03	1.49	6.00
9999	Carriage	L.S.	1.56	1.49	2.32
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	17.40	34.80 (A)
9999	Labour	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	1.56	1.49	2.32
	TOTAL				423.51
	Add Water Charges @ 1% except on A i.e on (423.51 - 34.80 =) 388.71				3.89
	TOTAL				427.40
	Add CPOH @ 15% except on A i.e on (427.40 - 34.80 =) 392.60				58.89
	Cost of 2 metre				486.29
	Cost of 1 metre				243.15
	Say				243.15

9.46.2 20 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0591	Chromium plated Brass curtain rod 20 mm dia 1.25mm thick	metre	2.00	250.00	500.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P.brass screws	L.S.	4.03	1.49	6.00
9999	Carriage	L.S.	1.56	1.49	2.32
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	17.40	34.80 (A)
9999	Labour	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	1.56	1.49	2.32
	TOTAL				563.51
	Add Water Charges @ 1% except on A i.e on (563.51 - 34.80 =) 528.71				5.29
	TOTAL				568.80
	Add CPOH @ 15% except on A i.e on (568.80 - 34.80 =) 534.00				80.10
	Cost of 2 metre				648.90
	Cost of 1 metre				324.45
	Say				324.45

9.46.3 25 mm dia

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	metre	2.00	330.00	660.00
7023	Chromium plated brackets (curtain rods)	each	2.00	7.00	14.00
9999	C.P. brass screws	L.S.	4.03	1.49	6.00
9999	Carriage	L.S.	1.56	1.49	2.32
	Wooden plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand)				
9.32	Rate as per Item Number 9.32 of SH: Wood and PVC work	each	2.00	17.40	34.80 (A)
9999	Labour	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	1.56	1.49	2.32
	TOTAL				723.51
	Add Water Charges @ 1% except on A i.e on (723.51 - 34.80 =) 688.71				6.89
	TOTAL				730.40
	Add CPOH @ 15% except on A i.e on (730.40 - 34.80 =) 695.60				104.34
	Cost of 2 metre				834.74
	Cost of 1 metre				417.37
	Say				417.35

9.47 Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:

9.47.1 20 mm dia (heavy type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
7034	Nickel plated M.S. pipe 20 mm dia	metre	2.00	67.00	134.00
7035	Nickel plated M.S. Brackets for curtain rod 20 mm	each	2.00	6.00	12.00
9999	Screws	L.S.	4.03	1.49	6.00
9999	Carriage	L.S.	1.56	1.49	2.32
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
9999	Rawl plug 50 mm (designation 10 no.)	L.S.	5.20	1.49	7.75
9999	Sundries	L.S.	1.56	1.49	2.32
	TOTAL				184.39
	Add Water Charges @ 1%				1.84
	TOTAL				186.23
	Add CPOH @ 15%				27.93
	Cost of 2 metre				214.16
	Cost of 1 metre				107.08
	Say				107.10

9.47.2 25 mm dia (heavy type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long.</i>				
	MATERIAL:				
7033	Nickel plated M.S. pipe 25 mm dia	metre	2.00	75.00	150.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	2.00	7.00	14.00
9999	Screws	L.S.	4.03	1.49	6.00
9999	Carriage	L.S.	1.56	1.49	2.32
7048	Rawl plug 50 mm (designation 10 nos)	each	2.00	10.00	20.00
9999	Labour including fixing rawl plug	L.S.	5.20	1.49	7.75
9999	Sundries	L.S.	1.56	1.49	2.32
	TOTAL				202.39
	Add Water Charges @ 1%				2.02
	TOTAL				204.41
	Add CPOH @ 15%				30.66
	Cost of 2 metre				235.07
	Cost of 1 metre				117.54
	Say				117.55

9.48 Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.

9.48.1 Fixed to steel windows by welding

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1003	<i>Details of cost for a grill 90x120cm = 1.08sqm.</i> MATERIAL: M.S. bar 16mm diameter- 11x86cm = 9.46m. @ 1.58kg/m= 14.95kg+ Add wastage @ 10% = 1.50kg. Total = 16.45kg. Say 0.165 quintal Mild steel round bar above 12 mm dia M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm= 1.80m+ 1x120cm= 1.20m+ 2x15cm = 0.30m Total =5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04 quintal	quintal	0.165	4,000.00	660.00
1008	Flats up to 10 mm in thickness	quintal	0.04	4,200.00	168.00
2205	Carriage of steel	tonne	0.02	77.87	1.56
	0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne				
9999	Sundries	L.S.	26.91	1.49	40.10
9999	Welding charges	L.S.	19.76	1.49	29.44
	Priming coat: Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH:	sqm	1.08	20.70	22.36 (A)
	Finishing				
0102	LABOUR: Blacksmith 1 st class	day	0.86	301.00	258.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.10	247.00	271.70
	TOTAL				1,452.02
	Add Water Charges @ 1% except on A i.e on (1,452.02 - 22.36 =) 1,429.66				14.30
	TOTAL				1,466.32
	Add CPOH @ 15% except on A i.e on (1,466.32 - 22.36 =) 1,443.96				216.59
	Cost of 18.54 kg				1,682.91
	Cost of 1 kg				90.77
	Say				90.75

9.48.2 Fixed to openings/ wooden frames with rawl plugs screws etc

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1003	Details of cost for a grill 90x120cm = 1.08sqm. MATERIAL: M.S. bar 16mm dia. 11x86cm = 9.46m. @ 1.58kg/m= 14.95kg+ Add wastage @ 10% = 1.50kg. Total = 16.45kg. Say 0.165quintal Mild steel round bar above 12 mm dia M.S. bar M.S. flat 25x3.15mm 2x120cm = 2.40m+ 2x90cm= 1.80m+ 1x120cm= 1.20m+ 2x15cm = 0.30m Total =5.70m 5.70m @ 0.63kg/m = 3.59kg+ Add wastage @ 10% = 0.36kg. Total = 3.95kg. Say 4 kg. or 0.04 quintal	quintal	0.165	4,000.00	660.00
1008	Flats up to 10 mm in thickness	quintal	0.04	4,200.00	168.00
2205	Carriage of steel 0.165 + 0.04 = 0.205 q = 0.0205 t Say 0.02 tonne	tonne	0.02	77.87	1.56
9999	Sundries	L.S.	26.91	1.49	40.10
9999	Welding charges	L.S.	19.76	1.49	29.44
	Priming coat: Area=1x0.9x1.2x1=1.08 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	1.08	20.70	22.36 (A)
0102	Blacksmith 1 st class	day	0.86	301.00	258.86
0114	Beldar	day	1.10	247.00	271.70
7048	Rawl plug 50 mm (designation 10 nos)	each	8.00	10.00	80.00
9999	Fixing of rawl plugs	L.S.	26.00	1.49	38.74
	TOTAL				1,570.76
	Add Water Charges @ 1% except on A i.e on (1,570.76 - 22.36 =) 1,548.40				15.48
	TOTAL				1,586.24
	Add CPOH @ 15% except on A i.e on (1,586.24 - 22.36 =) 1,563.88				234.58
	Cost of 18.54 kg				1,820.82
	Cost of 1 kg				98.21
	Say				98.20

9.49 Providing and fixing expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick for windows etc. including 62 x19 mm beading of II nd class teak wood and priming coat with approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i> MATERIAL: Expanded metal -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm				
1015	Mild steel expanded metal 20x60 mm strands	sqm	1.69	270.00	456.30
9999	Carriage	L.S.	1.82	1.49	2.71
	Priming coat				
13.50.3	Area=1.40x1.10x1.00=1.54sqm Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.54	20.70	31.88 (A)
	Second class teak wood beading 5mx62mmx19mm = 0.0059cum.+ Add wastage @ 10% = 0.00059cum. Total= 0.00649cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.00	720.00	432.00
2204	Carriage of timber	cum	0.006	100.11	0.60
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				1,115.43
	Add Water Charges @ 1% except on A i.e on (1,115.43 - 31.88 =) 1,083.55				10.84
	TOTAL				1,126.27
	Add CPOH @ 15% except on A i.e on (1,126.27 - 31.88 =) 1,094.39				164.16
	Cost of 1.54 sqm				1,290.43
	Cost of 1 sqm				837.94
	Say				837.95

9.50 Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i> MATERIAL: Hard drawn steel wire fabric -20x60mm mesh 3.2mm wide = 1.4x1.1m= 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm				
1021	Hard drawn steel wire fabric	sqm	1.69	430.00	726.70

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of wire fabric Second class teak wood beading 5mx62mmx19mm = 0.00059cum.+ Add wastage @ 10% = 0.00059cum. Total = 0.000649cum. Say 6 cudm Priming coat Area=1.40x1.10x1.00=1.54sqm	L.S.	1.82	1.49	2.71
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	1.54	20.70	31.88 (A)
1190	Second class teak wood in planks	10 cudm	6.00	720.00	432.00
2204	Carriage of timber	cum	0.006	100.11	0.60
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,375.17
	Add Water Charges @ 1% except on A i.e on (1,375.17 - 31.88 =) 1,343.29				13.43
	TOTAL				1,388.60
	Add CPOH @ 15% except on A i.e on (1,388.60 - 31.88 =) 1,356.72				203.51
	Cost of 1.54 sqm				1,592.11
	Cost of 1 sqm				1,033.84
	Say				1,033.85

9.51 Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.

9.51.1 With 2nd class teak wood beading 62X19 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i> MATERIAL: Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1 m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	230.00	388.70
9999	Carriage of wire fabric Second class teak wood beading 5mx62mmx19mm = 0.0059cum.+ Add wastage @ 10% = 0.00059cum. Total = 0.00649cum. Say 6 cudm	L.S.	1.82	1.49	2.71
1190	Second class teak wood in planks	10 cudm	6.00	720.00	432.00
2204	Carriage of timber	cum	0.006	100.11	0.60
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,005.29
	Add Water Charges @ 1%				10.05
	TOTAL				1,015.34
	Add CPOH @ 15%				152.30
	Cost of 1.54 sqm				1,167.64
	Cost of 1 sqm				758.21
	Say				758.20

9.51.2 With 12 mm mild steel U beading

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i>				
	MATERIAL:				
	Wire gauge -20x60mm mesh 3.2mm wide = 1.4x1.1m = 1.54sqm.+				
	Add wastage @ 10% = 0.15sqm.				
	Total = 1.69 sqm				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	230.00	388.70
9999	Carriage of wire fabric	L.S.	1.82	1.49	2.71
7349	12 mm M.S. 'U' beading	metre	5.00	14.00	70.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				642.69
	Add Water Charges @ 1%				6.43
	TOTAL				649.12
	Add CPOH @ 15%				97.37
	Cost of 1.54 sqm				746.49
	Cost of 1 sqm				484.73
	Say				484.75

9.52 Deduct for fixing 75x25 mm hard drawn steel wire fabric of weight not less than 7.75 kg per sqm in panelled and glazed door and window shutter instead of glass sheet 4 mm thick.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm.</i>				
	MATERIAL:				
	Difference in cost of				
1021	Hard drawn steel wire fabric	sqm	1.00	430.00	430.00
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	-1.00	310.00	-310.00
	TOTAL				120.00
	Add Water Charges @ 1%				1.20
	TOTAL				121.20
	Add CPOH @ 15%				18.18
	Cost of 1 sqm				139.38
	Say				139.40

9.53 Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 hold fast</i>				
	MATERIAL:				
1008	M.S.flat 40x5mm 40cm long @ 1.68 kg/m = 0.672 kg = 0.0067 quintal	quintal	0.0067	4,200.00	28.14
9999	Flats up to 10 mm in thickness	L.S.	1.82	1.49	2.71
	Carriage of steel				
	Cement concrete 1:3:6				
	30x10x15cm= 0.0045cum.+				
	Add wastage @ 10% = 0.00045cum.				
4.2.5	Total = 0.00495cum. Say 0.005cum	cum	0.005	4,782.35	23.91 (A)
	Rate as per Item Number 4.2.5 of SH:				
9999	Concrete work				
	Bolts and nuts	L.S.	5.46	1.49	8.14
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	273.00	8.19
0123	Mason (brick layer) 1 st class	day	0.03	301.00	9.03
0114	Beldar	day	0.03	247.00	7.41
	TOTAL				87.53
	Add Water Charges @ 1% except on A i.e on (87.53 - 23.91 =) 63.62				0.64
	TOTAL				88.17
	Add CPOH @ 15% except on A i.e on (88.17 - 23.91 =) 64.26				9.64
	Cost of each				97.81
	Say				97.80

9.54 Providing beams including hoisting, fixing in position and applying wood preservative for the unexposed surfaces, etc. complete with:

9.54.1 Sal wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 450x30x15cm = 0.203cum. or 203cudm</i>				
	MATERIAL:				
	Sal wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				
1199	Sal wood in scantling	10 cudm	207.10	500.00	10,355.00
2204	Carriage of timber	cum	0.207	100.11	20.72
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH:	sqm	0.54	18.70	10.10 (A)
	Finishing				
	LABOUR:				
0112	Carpenter 2nd class	day	0.70	273.00	191.10
0114	Beldar	day	1.45	247.00	358.15
0100	Bandhani	day	0.70	260.00	182.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				11,157.17
	Add Water Charges @ 1% except on A i.e on (11,157.17 - 10.10 =) 11,147.07				111.47
	TOTAL				11,268.64
	Add CPOH @ 15% except on A i.e on (11,268.64 - 10.10 =) 11,258.54				1,688.78
	Cost of 0.203 cum				12,957.42
	Cost of 1 cum				63,829.66
	Say				63,829.70

9.54.2 Hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a beam 450x30x15cm = 0.203cum. or 203cudm</i>				
	MATERIAL:				
	Hollock wood = 203 cudm.+				
	Add wastage @ 2% = 4.06cudm.				
	Total = 207.06cudm. Say 207.1 cudm				
2466	Hollock wood in scantling	10 cudm	207.10	310.00	6,420.10
2204	Carriage of timber	cum	0.207	100.11	20.72
	Priming coat (wood preservative)				
13.57.1	Rate as per Item Number 13.57.1 of SH:	sqm	0.54	18.70	10.10 (A)
	Finishing				
	LABOUR:				
0112	Carpenter 2nd class	day	0.70	273.00	191.10
0114	Beldar	day	1.45	247.00	358.15
0100	Bandhani	day	0.70	260.00	182.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				7,222.27
	Add Water Charges @ 1% except on A i.e on (7,222.27 - 10.10 =) 7,212.17				72.12
	TOTAL				7,294.39
	Add CPOH @ 15% except on A i.e on (7,294.39 - 10.10 =) 7,284.29				1,092.64
	Cost of 0.203 cum				8,387.03
	Cost of 1 cum				41,315.42
	Say				41,315.40

9.55 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete:

9.55.1 125x65x2.12 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
0594	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 nos	10.00	130.00	130.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				242.52
	Add Water Charges @ 1%				2.43
	TOTAL				244.95
	Add CPOH @ 15%				36.74
	Cost of 10 nos				281.69
	Cost of each				28.17
	Say				28.15

9.55.2 100x58x1.90 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of Cost for 10 hinges.</i>				
0595	MATERIAL: Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	10.00	80.00	80.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
0112	LABOUR: Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				184.52
	Add Water Charges @ 1%				1.85
	TOTAL				186.37
	Add CPOH @ 15%				27.96
	Cost of 10 nos				214.33
	Cost of each				21.43
	Say				21.45

9.55.3 75x47x1.70 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
0596	MATERIAL: Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 nos	10.00	60.00	60.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of material	L.S.	1.82	1.49	2.71
0112	LABOUR: Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				147.16
	Add Water Charges @ 1%				1.47
	TOTAL				148.63
	Add CPOH @ 15%				22.29
	Cost of 10 nos				170.92
	Cost of each				17.09
	Say				17.10

9.55.4 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
0597	MATERIAL: Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	10.00	45.00	45.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	40.00	25.00	10.00
9999	Carriage of material	L.S.	0.91	1.49	1.36
0112	LABOUR: Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				78.20
	Add Water Charges @ 1%				0.78
	TOTAL				78.98
	Add CPOH @ 15%				11.85
	Cost of 10 nos				90.83
	Cost of each				9.08
	Say				9.10

9.56 Providing and fixing ISI marked, IS : 1341, M.S. heavy weight butt hinges with necessary screws etc. complete :

9.56.1 125x90x4.00 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8222	M.S. heavy weight butt hinges 125x90x4.0 mm IS: 1341 marked.	10 nos	10.00	320.00	320.00
0635	Bright finished or black enameled mild steel screws 50 mm	100 nos	80.00	60.00	48.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				432.52
	Add Water Charges @ 1%				4.33
	TOTAL				436.85
	Add CPOH @ 15%				65.53
	Cost of 10 nos				502.38
	Cost of each				50.24
	Say				50.25

9.56.2 100x75x3.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	10 nos	10.00	160.00	160.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				264.52
	Add Water Charges @ 1%				2.65
	TOTAL				267.17
	Add CPOH @ 15%				40.08
	Cost of 10 nos				307.25
	Cost of each				30.73
	Say				30.70

9.56.3 75x60x3.10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8224	M.S. heavy weight butt hinges 75x60x3.1 mm IS: 1341 marked	10 nos	10.00	83.00	83.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of material	L.S.	1.82	1.49	2.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	LABOUR:				
	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				170.16
	Add Water Charges @ 1%				1.70
	TOTAL				171.86
	Add CPOH @ 15%				25.78
	Cost of 10 nos				197.64
	Cost of each				19.76
	Say				19.75

9.56.4 50x40x2.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten hinges.</i>				
	MATERIAL:				
8225	M.S. heavy weight butt hinges 50x40x2.5 mm IS : 1341 marked	10 nos	10.00	70.00	70.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	40.00	25.00	10.00
9999	Carriage of material	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				103.20
	Add Water Charges @ 1%				1.03
	TOTAL				104.23
	Add CPOH @ 15%				15.63
	Cost of 10 nos				119.86
	Cost of each				11.99
	Say				12.00

9.57 Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete.

9.57.1 125x65x2.12 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 nos	10.00	130.00	130.00
0682	Oxidised mild steel screws 50 mm	100 nos	80.00	70.00	56.00
9999	Carriage of material	L.S.	3.64	1.49	5.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				251.87
	Add Water Charges @ 1%				2.52
	TOTAL				254.39
	Add CPOH @ 15%				38.16
	Cost of 10 nos				292.55
	Cost of each				29.26
	Say				29.25

9.57.2 100x58x1.90 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 nos	10.00	80.00	80.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				184.52
	Add Water Charges @ 1%				1.85
	TOTAL				186.37
	Add CPOH @ 15%				27.96
	Cost of 10 nos				214.33
	Cost of each				21.43
	Say				21.45

9.57.3 75x47x1.70 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0644	Oxidised mild steel butt hinges 75x47x1.70 mm	10 nos	10.00	55.00	55.00
0684	Oxidised mild steel screws 30 mm	100 nos	60.00	45.00	27.00
9999	Carriage of material	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				145.16
	Add Water Charges @ 1%				1.45
	TOTAL				146.61
	Add CPOH @ 15%				21.99
	Cost of 10 nos				168.60
	Cost of each				16.86
	Say				16.85

9.57.4 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos..</i>				
	MATERIAL:				
0645	Oxidised mild steel butt hinges 50x37x1.50 mm	10 nos	10.00	45.00	45.00
0686	Oxidised mild steel screws 20 mm	100 nos	40.00	30.00	12.00
9999	Carriage of material	L.S.	0.91	1.49	1.36
	LABOUR:				

Code	Description	Unit	Quantity	Rate	Amount
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				80.20
	Add Water Charges @ 1%				0.80
	TOTAL				81.00
	Add CPOH @ 15%				12.15
	Cost of 10 nos				93.15
	Cost of each				9.32
	Say				9.30

9.58 Providing and fixing ISI marked oxidised M.S. pressed Parliamentary hinges with necessary screws etc. complete:

9.58.1 150x125x27x2.80 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0646	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 nos	10.00	320.00	320.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				436.87
	Add Water Charges @ 1%				4.37
	TOTAL				441.24
	Add CPOH @ 15%				66.19
	Cost of 10 nos				507.43
	Cost of each				50.74
	Say				50.75

9.58.2 125x125x27x2.80 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0647	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 nos	10.00	300.00	300.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				416.87
	Add Water Charges @ 1%				4.17
	TOTAL				421.04
	Add CPOH @ 15%				63.16
	Cost of 10 nos				484.20
	Cost of each				48.42
	Say				48.40

9.58.3 100x125x27x2.80 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0648	Oxidised mild steel parliamentary hinges 100x125x27x2.8 mm	10 nos	10.00	225.00	225.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				341.87
	Add Water Charges @ 1%				3.42
	TOTAL				345.29
	Add CPOH @ 15%				51.79
	Cost of 10 nos				397.08
	Cost of each				39.71
	Say				39.70

9.58.4 75x100x20x2.24 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0649	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 nos	10.00	190.00	190.00
0684	Oxidised mild steel screws 30 mm	100 nos	60.00	45.00	27.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				293.87
	Add Water Charges @ 1%				2.94
	TOTAL				296.81
	Add CPOH @ 15%				44.52
	Cost of 10 nos				341.33
	Cost of each				34.13
	Say				34.15

9.59 Providing and fixing ISI marked oxidised M.S. single acting spring hinges with necessary screws etc. complete:**9.59.1 150 mm**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0650	Oxidised mild steel single acting spring hinges 150 mm	each	10.00	105.00	1,050.00
0682	Oxidised mild steel screws 50 mm	100 nos	80.00	70.00	56.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,268.67
	Add Water Charges @ 1%				12.69
	TOTAL				1,281.36
	Add CPOH @ 15%				192.20
	Cost of 10 nos				1,473.56
	Cost of each				147.36
	Say				147.35

9.59.2 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0651	Oxidised mild steel single acting spring hinges 125 mm	each	10.00	100.00	1,000.00
0682	Oxidised mild steel screws 50 mm	100 nos	80.00	70.00	56.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,218.67
	Add Water Charges @ 1%				12.19
	TOTAL				1,230.86
	Add CPOH @ 15%				184.63
	Cost of 10 nos				1,415.49
	Cost of each				141.55
	Say				141.55

9.59.3 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0652	Oxidised mild steel single acting spring hinges 100 mm	each	10.00	80.00	800.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,002.67
	Add Water Charges @ 1%				10.03
	TOTAL				1,012.70
	Add CPOH @ 15%				151.90
	Cost of 10 nos				1,164.60
	Cost of each				116.46
	Say				116.45

9.60 Providing and fixing oxidised M.S. double acting spring hinges with necessary screws etc. complete.

9.60.1 150 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0653	Oxidised mild steel double acting spring hinges 150 mm	each	10.00	110.00	1,100.00
0682	Oxidised mild steel screws 50 mm	100 nos	80.00	70.00	56.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,318.67
	Add Water Charges @ 1%				13.19
	TOTAL				1,331.86
	Add CPOH @ 15%				199.78
	Cost of 10 nos				1,531.64
	Cost of each				153.16
	Say				153.15

9.60.2 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0654	Oxidised mild steel double acting spring hinges 125 mm	each	10.00	105.00	1,050.00
0682	Oxidised mild steel screws 50 mm	100 nos	80.00	70.00	56.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,268.67
	Add Water Charges @ 1%				12.69
	TOTAL				1,281.36
	Add CPOH @ 15%				192.20
	Cost of 10 nos				1,473.56
	Cost of each				147.36
	Say				147.35

9.60.3 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0655	Oxidised mild steel double acting spring hinges 100 mm	each	10.00	85.00	850.00
0683	Oxidised mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.40	273.00	109.20

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				1,052.67
	Add Water Charges @ 1%				10.53
	TOTAL				1,063.20
	Add CPOH @ 15%				159.48
	Cost of 10 nos				1,222.68
	Cost of each				122.27
	Say				122.25

9.61 Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete.

9.61.1 Overall width 35 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
0656	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	1.00	40.00	40.00
0686	Oxidised mild steel screws 20 mm	100 nos	30.00	30.00	9.00
9999	Carriage of material	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				112.16
	Add Water Charges @ 1%				1.12
	TOTAL				113.28
	Add CPOH @ 15%				16.99
	Cost of 1 metre				130.27
	Say				130.25

9.61.2 Overall width 50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
7485	Oxidised M. S. hinges finished with nickel plating 50 mm (Over all width)	metre	1.00	39.00	39.00
0686	Oxidised mild steel screws 20 mm	100 nos	30.00	30.00	9.00
9999	Carriage of material	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				111.16
	Add Water Charges @ 1%				1.11
	TOTAL				112.27
	Add CPOH @ 15%				16.84
	Cost of 1 metre				129.11
	Say				129.10

9.61.3 Overall width 65 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
7486	Oxidised M. S. hinges finished with nickel plating 65 mm (Over all width)	metre	1.00	49.00	49.00
0686	Oxidised mild steel screws 20 mm	100 nos	30.00	30.00	9.00
9999	Carriage of material	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				121.16
	Add Water Charges @ 1%				1.21
	TOTAL				122.37
	Add CPOH @ 15%				18.36
	Cost of 1 metre				140.73
	Say				140.75

9.62 Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :

9.62.1 300x16 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0660	Oxidised mild steel sliding door bolt 300x16 mm	each	10.00	90.00	900.00
7040	Oxidised mild steel screws 35 mm	100 nos	120.00	40.00	48.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.00	5.00	200.00
9999	Carriage of materials & sundries	L.S.	6.37	1.49	9.49
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	273.00	68.25
	TOTAL				1,225.74
	Add Water Charges @ 1%				12.26
	TOTAL				1,238.00
	Add CPOH @ 15%				185.70
	Cost of 10 nos				1,423.70
	Cost of each				142.37
	Say				142.35

9.62.2 250x16 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0661	Oxidised mild steel sliding door bolt 250x16 mm	each	10.00	80.00	800.00
7040	Oxidised mild steel screws 35 mm	100 nos	100.00	40.00	40.00
0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	40.00	5.00	200.00
9999	Carriage of materials & sundries	L.S.	6.37	1.49	9.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
	TOTAL				1,117.74
	Add Water Charges @ 1%				11.18
	TOTAL				1,128.92
	Add CPOH @ 15%				169.34
	Cost of 10 nos				1,298.26
	Cost of each				129.83
	Say				129.85

9.63 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:

9.63.1 250x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	10.00	40.00	400.00
0684	Oxidised mild steel screws 30 mm	100 nos	100.00	45.00	45.00
9999	Carriage of material	L.S.	3.64	1.49	5.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				477.72
	Add Water Charges @ 1%				4.78
	TOTAL				482.50
	Add CPOH @ 15%				72.38
	Cost of 10 nos				554.88
	Cost of each				55.49
	Say				55.50

9.63.2 200x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	10.00	35.00	350.00
0684	Oxidised mild steel screws 30 mm	100 nos	80.00	45.00	36.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				417.37
	Add Water Charges @ 1%				4.17
	TOTAL				421.54
	Add CPOH @ 15%				63.23
	Cost of 10 nos				484.77
	Cost of each				48.48
	Say				48.50

9.63.3 150x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0666	Oxidised mild steel tower bolt (barrel type) 150x10 mm	each	10.00	25.00	250.00
0684	Oxidised mild steel screws 30 mm	100 nos	60.00	45.00	27.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				308.37
	Add Water Charges @ 1%				3.08
	TOTAL				311.45
	Add CPOH @ 15%				46.72
	Cost of 10 nos				358.17
	Cost of each				35.82
	Say				35.80

9.63.4 100x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0667	Oxidised mild steel tower bolt (barrel type) 100x10 mm	each	10.00	20.00	200.00
0684	Oxidised mild steel screws 30 mm	100 nos	60.00	45.00	27.00
9999	Carriage of material	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				252.91
	Add Water Charges @ 1%				2.53
	TOTAL				255.44
	Add CPOH @ 15%				38.32
	Cost of 10 nos				293.76
	Cost of each				29.38
	Say				29.40

9.64 Providing and fixing ISI marked 85x42mm oxidised M.S. pull bolt lock conforming to IS : 7534 with necessary screws bolts, nut and washers etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2449	Oxidised mild steel pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.00	44.00	440.00
9999	Carriage of material & sundries	L.S.	6.37	1.49	9.49
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.25	273.00	68.25
	TOTAL				517.74
	Add Water Charges @ 1%				5.18
	TOTAL				522.92
	Add CPOH @ 15%				78.44
	Cost of 10 nos				601.36
	Cost of each				60.14
	Say				60.15

9.65 Providing and fixing ISI marked oxidised MS door latches conforming to IS : 5930 with screws etc. complete.

9.65.1 300x20x6 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0662	Oxidised mild steel door latch 300x20x6 mm	each	10.00	45.00	450.00
0685	Oxidised mild steel screws 25 mm	100 nos	90.00	35.00	31.50
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.12	273.00	32.76
	TOTAL				519.68
	Add Water Charges @ 1%				5.20
	TOTAL				524.88
	Add CPOH @ 15%				78.73
	Cost of 10 nos				603.61
	Cost of each				60.36
	Say				60.35

9.65.2 250x20x6 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0663	Oxidised mild steel door latch 250x20x6 mm	each	10.00	40.00	400.00
0685	Oxidised mild steel screws 25 mm	100 nos	90.00	35.00	31.50
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0112	Carpenter 2nd class	day	0.12	273.00	32.76
	TOTAL				469.68
	Add Water Charges @ 1%				4.70
	TOTAL				474.38
	Add CPOH @ 15%				71.16
	Cost of 10 nos				545.54
	Cost of each				54.55
	Say				54.55

9.66 Providing and fixing ISI marked oxidised M.S. handles conforming to IS :4992 with necessary screws etc. complete:

9.66.1 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0668	Oxidised mild steel handles 125 mm	each	10.00	17.00	170.00
0685	Oxidised mild steel screws 25 mm	100 nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
	TOTAL				204.45
	Add Water Charges @ 1%				2.04
	TOTAL				206.49
	Add CPOH @ 15%				30.97
	Cost of 10 nos				237.46
	Cost of each				23.75
	Say				23.75

9.66.2 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0669	Oxidised mild steel handles 100 mm	each	10.00	15.00	150.00
0685	Oxidised mild steel screws 25 mm	100 nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
	TOTAL				183.09
	Add Water Charges @ 1%				1.83
	TOTAL				184.92
	Add CPOH @ 15%				27.74
	Cost of 10 nos				212.66
	Cost of each				21.27
	Say				21.25

9.66.3 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0670	Oxidised mild steel handles 75 mm	each	10.00	14.00	140.00
0685	Oxidised mild steel screws 25 mm	100 nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
	TOTAL				173.09
	Add Water Charges @ 1%				1.73
	TOTAL				174.82
	Add CPOH @ 15%				26.22
	Cost of 10 nos				201.04
	Cost of each				20.10
	Say				20.10

9.67 Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete:

9.67.1 150 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0679	Oxidised mild steel hasps and staples (safety type) 150 mm	10 nos	10.00	120.00	120.00
0685	Oxidised mild steel screws 25 mm	100 nos	80.00	35.00	28.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				172.55
	Add Water Charges @ 1%				1.73
	TOTAL				174.28
	Add CPOH @ 15%				26.14
	Cost of 10 nos				200.42
	Cost of each				20.04
	Say				20.05

9.67.2 115 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0680	Oxidised mild steel hasps and staples (safety type) 115 mm	10 nos	10.00	100.00	100.00
0685	Oxidised mild steel screws 25 mm	100 nos	70.00	35.00	24.50
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				149.05
	Add Water Charges @ 1%				1.49
	TOTAL				150.54
	Add CPOH @ 15%				22.58
	Cost of 10 nos				173.12
	Cost of each				17.31
	Say				17.30

9.67.3 90 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0681	Oxidised mild steel hasps and staples (safety type) 90 mm	10 Nos	10.00	75.00	75.00
0685	Oxidised mild steel screws 25 mm	100 nos	70.00	35.00	24.50
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				124.05
	Add Water Charges @ 1%				1.24
	TOTAL				125.29
	Add CPOH @ 15%				18.79
	Cost of 10 nos				144.08
	Cost of each				14.41
	Say				14.40

9.68 Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.

9.68.1 300 mm weighing not less than 200 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7063	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	each	10.00	21.00	210.00
0684	Oxidised mild steel screws 30 mm	100 nos	40.00	45.00	18.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				256.66
	Add Water Charges @ 1%				2.57
	TOTAL				259.23
	Add CPOH @ 15%				38.88
	Cost of 10 nos				298.11
	Cost of each				29.81
	Say				29.80

9.68.2 250 mm weighing not less than 150 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7064	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	each	10.00	18.00	180.00
0685	Oxidised mild steel screws 25 mm	100 nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				222.66
	Add Water Charges @ 1%				2.23
	TOTAL				224.89
	Add CPOH @ 15%				33.73
	Cost of 10 nos				258.62
	Cost of each				25.86
	Say				25.85

9.68.3 200 mm weighing not less than 120 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7065	Oxidised M.S. casement stay (straight peg type) 200 mm not less than 0.24 kg	each	10.00	17.00	170.00
0685	Oxidised mild steel screws 25 mm	100 nos	40.00	35.00	14.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				212.66
	Add Water Charges @ 1%				2.13
	TOTAL				214.79
	Add CPOH @ 15%				32.22
	Cost of 10 nos				247.01
	Cost of each				24.70
	Say				24.70

9.69 Providing and fixing oxidised M.S. Safety chain with necessary fixtures for doors, (weighting not less than 450 gms).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7184	Oxidised M.S. safety chain (weighing not less than 450 gms) for door	each	10.00	60.00	600.00
0685	Oxidised mild steel screws 25 mm	100 nos	60.00	35.00	21.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				649.66
	Add Water Charges @ 1%				6.50
	TOTAL				656.16
	Add CPOH @ 15%				98.42
	Cost of 10 nos				754.58
	Cost of each				75.46
	Say				75.45

9.70 Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete:**9.70.1 125x64x1.90 mm**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 nos	10.00	240.00	240.00
8210	Stainless steel screws 50 mm	100 nos	80.00	240.00	192.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				496.52
	Add Water Charges @ 1%				4.97
	TOTAL				501.49
	Add CPOH @ 15%				75.22
	Cost of 10 nos				576.71
	Cost of each				57.67
	Say				57.65

9.70.2 100X58X1.90 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8216	Stainless steel butt hinges 100x58x1.9 mm	10 nos	10.00	215.00	215.00
	IS: 12817 marked				
8211	Stainless steel screws 40 mm	100 nos	80.00	195.00	156.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				435.52
	Add Water Charges @ 1%				4.36
	TOTAL				439.88
	Add CPOH @ 15%				65.98
	Cost of 10 nos				505.86
	Cost of each				50.59
	Say				50.60

9.70.3 75x47x1.80 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8217	Stainless steel butt hinges 75x47x1.8 mm	10 nos	10.00	145.00	145.00
	IS : 12817 marked				
8212	Stainless steel screws 30 mm	100 nos	60.00	145.00	87.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				295.16
	Add Water Charges @ 1%				2.95
	TOTAL				298.11
	Add CPOH @ 15%				44.72
	Cost of 10 nos				342.83
	Cost of each				34.28
	Say				34.30

9.70.4 50x37x1.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8218	Stainless steel butt hinges 50x37x1.5 mm	10 nos	10.00	125.00	125.00
	IS : 12817 marked				
8214	Stainless steel screws 20 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				186.20
	Add Water Charges @ 1%				1.86
	TOTAL				188.06
	Add CPOH @ 15%				28.21
	Cost of 10 nos				216.27
	Cost of each				21.63
	Say				21.65

9.71 Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete:**9.71.1 125x64x2.50 mm**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8219	Stainless steel butt hinges (heavy weight)	10 nos	10.00	320.00	320.00
	125x64x2.5 mm IS : 12817 marked				
8210	Stainless steel screws 50 mm	100 nos	80.00	240.00	192.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				576.52
	Add Water Charges @ 1%				5.77
	TOTAL				582.29
	Add CPOH @ 15%				87.34
	Cost of 10 nos				669.63
	Cost of each				66.96
	Say				66.95

9.71.2 100x60x2.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8220	Stainless steel butt hinges (heavyweight)	10 nos	10.00	230.00	230.00
	100x60x2.5 mm IS : 12817 marked				
8211	Stainless steel screws 40 mm	100 nos	80.00	195.00	156.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				450.52
	Add Water Charges @ 1%				4.51
	TOTAL				455.03
	Add CPOH @ 15%				68.25
	Cost of 10 nos				523.28
	Cost of each				52.33
	Say				52.35

9.71.3 75x50x2.50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
8221	Stainless steel butt hinges (heavy weight)	10 nos	10.00	195.00	195.00
	75x50x2.5 mm IS : 12817 marked				
8212	Stainless steel screws 30 mm	100 nos	60.00	145.00	87.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				345.16
	Add Water Charges @ 1%				3.45
	TOTAL				348.61
	Add CPOH @ 15%				52.29
	Cost of 10 nos				400.90
	Cost of each				40.09
	Say				40.10

9.72 Providing and fixing bright finished brass butt hinges with necessary screws etc. complete:

9.72.1 125x85x5.5 mm (heavy type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0382	Brass butt hinges (heavy type) : 125x85x5.5 mm(0.70 kg)	10 Nos	10.00	2,900.00	2,900.00
0449	Brass screws 50 mm	100 nos	100.00	200.00	200.00
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				3,172.26
	Add Water Charges @ 1%				31.72
	TOTAL				3,203.98
	Add CPOH @ 15%				480.60
	Cost of 10 nos				3,684.58
	Cost of each				368.46
	Say				368.45

9.72.2 125x70x4 mm (ordinary type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0378	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 nos	10.00	800.00	800.00
0449	Brass screws 50 mm	100 nos	100.00	200.00	200.00
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				1,072.26
	Add Water Charges @ 1%				10.72
	TOTAL				1,082.98
	Add CPOH @ 15%				162.45
	Cost of 10 nos				1,245.43
	Cost of each				124.54
	Say				124.55

9.72.3 100x85x5.5 mm (heavy type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0383	Brass butt hinges (heavy type) : 100x85x5.5 mm(0.56 kg)	10 Nos	10.00	2,600.00	2,600.00
0450	Brass screws 40 mm	100 nos	80.00	160.00	128.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				2,798.91
	Add Water Charges @ 1%				27.99
	TOTAL				2,826.90
	Add CPOH @ 15%				424.04
	Cost of 10 nos				3,250.94
	Cost of each				325.09
	Say				325.10

9.72.4 100x70x4 mm (ordinary type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0379	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 nos	10.00	650.00	650.00
0450	Brass screws 40 mm	100 nos	80.00	160.00	128.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				848.91
	Add Water Charges @ 1%				8.49
	TOTAL				857.40
	Add CPOH @ 15%				128.61
	Cost of 10 nos				986.01
	Cost of each				98.60
	Say				98.60

9.72.5 75x65x4 mm (heavy type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0384	Brass butt hinges (heavy type) :75x65x4.0 mm(0.20 kg)	10 Nos	10.00	900.00	900.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				1,048.91
	Add Water Charges @ 1%				10.49
	TOTAL				1,059.40
	Add CPOH @ 15%				158.91
	Cost of 10 nos				1,218.31
	Cost of each				121.83
	Say				121.85

9.72.6 75x40x2.5 mm (ordinary type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0380	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 nos	10.00	400.00	400.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.10	247.00	24.70
	TOTAL				548.91
	Add Water Charges @ 1%				5.49
	TOTAL				554.40
	Add CPOH @ 15%				83.16
	Cost of 10 nos				637.56
	Cost of each				63.76
	Say				63.75

9.72.7 50x40x2.5 mm (ordinary type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0381	Brass butt hinges (light/ordinary type) : 50x40x2.5 mm	10 nos	10.00	175.00	175.00
0453	Brass screws 20 mm	100 nos	40.00	80.00	32.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				233.79
	Add Water Charges @ 1%				2.34
	TOTAL				236.13
	Add CPOH @ 15%				35.42
	Cost of 10 nos				271.55
	Cost of each				27.16
	Say				27.15

9.73 Providing and fixing bright finished brass parliamentary hinges with necessary screws etc. complete:

9.73.1 150x125x27x5 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0385	Brass parliamentary hinges 150x125x27x5 mm	10 nos	10.00	2,600.00	2,600.00
0450	Brass screws 40 mm	100 nos	80.00	160.00	128.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				2,808.79
	Add Water Charges @ 1%				28.09
	TOTAL				2,836.88
	Add CPOH @ 15%				425.53
	Cost of 10 nos				3,262.41
	Cost of each				326.24
	Say				326.25

9.73.2 125x125x27x5 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0386	Brass parliamentary hinges 125x125x27x5 mm	10 nos	10.00	2,300.00	2,300.00
0450	Brass screws 40 mm	100 nos	80.00	160.00	128.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				2,508.79
	Add Water Charges @ 1%				25.09
	TOTAL				2,533.88
	Add CPOH @ 15%				380.08
	Cost of 10 nos				2,913.96
	Cost of each				291.40
	Say				291.40

9.73.3 100x125x27x5 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0387	Brass parliamentary hinges 100x125x27x5 mm	10 nos	10.00	2,000.00	2,000.00
0450	Brass screws 40 mm	100 nos	80.00	160.00	128.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				2,208.79
	Add Water Charges @ 1%				22.09
	TOTAL				2,230.88
	Add CPOH @ 15%				334.63
	Cost of 10 nos				2,565.51
	Cost of each				256.55
	Say				256.55

9.73.4 75x100x20x3.2 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0388	Brass parliamentary hinges 75x100x20x3.2 mm	10 nos	10.00	1,600.00	1,600.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				1,758.79
	Add Water Charges @ 1%				17.59
	TOTAL				1,776.38
	Add CPOH @ 15%				266.46
	Cost of 10 nos				2,042.84
	Cost of each				204.28
	Say				204.30

9.74 Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:

9.74.1 250x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0400	Brass tower bolt (barrel type) 250x10 mm	each	10.00	225.00	2,250.00
0451	Brass screws 30 mm	100 nos	100.00	130.00	130.00
9999	Carriage of materials	L.S.	4.55	1.49	6.78
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				2,416.88
	Add Water Charges @ 1%				24.17
	TOTAL				2,441.05
	Add CPOH @ 15%				366.16
	Cost of 10 nos				2,807.21
	Cost of each				280.72
	Say				280.70

9.74.2 200x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0401	Brass tower bolt (barrel type) 200x10 mm	each	10.00	175.00	1,750.00
0451	Brass screws 30 mm	100 nos	80.00	130.00	104.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,888.17
	Add Water Charges @ 1%				18.88
	TOTAL				1,907.05
	Add CPOH @ 15%				286.06
	Cost of 10 nos				2,193.11
	Cost of each				219.31
	Say				219.30

9.74.3 150x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0402	Brass tower bolt (barrel type) 150x10 mm	each	10.00	140.00	1,400.00
0451	Brass screws 30 mm	100 nos	80.00	130.00	104.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,538.17
	Add Water Charges @ 1%				15.38
	TOTAL				1,553.55
	Add CPOH @ 15%				233.03
	Cost of 10 nos				1,786.58
	Cost of each				178.66
	Say				178.65

9.74.4 100x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0403	Brass tower bolt (barrel type) 100x10 mm	each	10.00	90.00	900.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,012.17
	Add Water Charges @ 1%				10.12
	TOTAL				1,022.29
	Add CPOH @ 15%				153.34
	Cost of 10 nos				1,175.63
	Cost of each				117.56
	Say				117.55

9.75 Providing and fixing bright finished brass door latch with necessary screws etc. complete:

9.75.1 300x16x5 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0411	Brass door latch 300x16x5 mm (0.380 kg)	each	10.00	160.00	1,600.00
0452	Brass screws 25 mm	100 nos	90.00	95.00	85.50
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0111	Carpenter 1 st class	day	0.12	301.00	36.12
	TOTAL				1,727.04
	Add Water Charges @ 1%				17.27
	TOTAL				1,744.31
	Add CPOH @ 15%				261.65
	Cost of 10 nos				2,005.96
	Cost of each				200.60
	Say				200.60

9.75.2 250x16x5 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0412	Brass door latch 250x16x5 mm (0.350 kg)	each	10.00	150.00	1,500.00
0452	Brass screws 25 mm	100 nos	90.00	95.00	85.50
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0111	Carpenter 1 st class	day	0.12	301.00	36.12
	TOTAL				1,627.04
	Add Water Charges @ 1%				16.27
	TOTAL				1,643.31
	Add CPOH @ 15%				246.50
	Cost of 10 nos				1,889.81
	Cost of each				188.98
	Say				189.00

9.76 Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0413	<i>Details of cost for 1 no.</i> MATERIAL: Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	350.00	350.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.49	5.42
	TOTAL				406.59
	Add Water Charges @ 1%				4.07
	TOTAL				410.66
	Add CPOH @ 15%				61.60
	Cost of each				472.26
	Say				472.25

9.77 Providing and fixing bright finished brass 100 mm mortice latch with one dead bolt and a pair of lever handles of approved quality with necessary screws etc. complete

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0414	<i>Details of cost for 1 no.</i> MATERIAL: Brass mortice latch 100x65mm with a pair of brass lever handles	each	1.00	300.00	300.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.49	5.42
	TOTAL				356.59
	Add Water Charges @ 1%				3.57
	TOTAL				360.16
	Add CPOH @ 15%				54.02
	Cost of each				414.18
	Say				414.20

9.78 Providing and fixing bright finished brass night latch of approved quality including necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0438	<i>Details of cost for 1 no.</i> MATERIAL: Brass night latch	each	1.00	450.00	450.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.49	5.42
	TOTAL				506.59
	Add Water Charges @ 1%				5.07
	TOTAL				511.66
	Add CPOH @ 15%				76.75
	Cost of each				588.41
	Say				588.40

9.79 Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.

9.79.1 40 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
2451	MATERIAL: Brass cupboard lock 6 levers of approved quality, 40 mm size	each	1.00	65.00	65.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				121.59
	Add Water Charges @ 1%				1.22
	TOTAL				122.81
	Add CPOH @ 15%				18.42
	Cost of each				141.23
	Say				141.25

9.79.2 50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
2452	MATERIAL: Brass cupboard lock 6 levers of approved quality, 50 mm size	each	1.00	70.00	70.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				126.59
	Add Water Charges @ 1%				1.27
	TOTAL				127.86
	Add CPOH @ 15%				19.18
	Cost of each				147.04
	Say				147.05

9.79.3 65 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
2453	MATERIAL: Brass cupboard lock 6 levers of approved quality, 65 mm size	each	1.00	75.00	75.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				131.59
	Add Water Charges @ 1%				1.32
	TOTAL				132.91
	Add CPOH @ 15%				19.94
	Cost of each				152.85
	Say				152.85

9.79.4 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
2454	MATERIAL: Brass cupboard lock 6 levers of approved quality, 75 mm size	each	1.00	95.00	95.00
0111	LABOUR: Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				151.59
	Add Water Charges @ 1%				1.52
	TOTAL				153.11
	Add CPOH @ 15%				22.97
	Cost of each				176.08
	Say				176.10

9.80 Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with necessary screws.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos</i>				
0447	MATERIAL: Brass cupboard knob or wardrobe knob 50 mm	each	10.00	30.00	300.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
0111	LABOUR: Carpenter 1 st class	day	0.14	301.00	42.14
	TOTAL				346.21
	Add Water Charges @ 1%				3.46
	TOTAL				349.67
	Add CPOH @ 15%				52.45
	Cost of 10 nos				402.12
	Cost of each				40.21
	Say				40.20

9.81 Providing and fixing bright finished brass handles with screws etc. complete:

9.81.1 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
0408	MATERIAL: Brass handles 125 mm with plate 175x32 mm	each	10.00	140.00	1,400.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
0111	LABOUR: Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,460.13
	Add Water Charges @ 1%				14.60
	TOTAL				1,474.73
	Add CPOH @ 15%				221.21
	Cost of 10 nos				1,695.94
	Cost of each				169.59
	Say				169.60

9.81.2 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0409	Brass handles 100 mm with plate 150x32 mm	each	10.00	125.00	1,250.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,307.42
	Add Water Charges @ 1%				13.07
	TOTAL				1,320.49
	Add CPOH @ 15%				198.07
	Cost of 10 nos				1,518.56
	Cost of each				151.86
	Say				151.85

9.81.3 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0410	Brass handles 75 mm with plate 125x32 mm	each	10.00	95.00	950.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,007.42
	Add Water Charges @ 1%				10.07
	TOTAL				1,017.49
	Add CPOH @ 15%				152.62
	Cost of 10 nos				1,170.11
	Cost of each				117.01
	Say				117.00

9.82 Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 hanging floor door stoppers.</i>				
	MATERIAL:				
2455	Brass hanging type door stopper 150 mm	each	10.00	60.00	600.00
0452	Brass screws 25 mm	100 nos	20.00	95.00	19.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	301.00	9.03
	TOTAL				632.10
	Add Water Charges @ 1%				6.32
	TOTAL				638.42
	Add CPOH @ 15%				95.76
	Cost of 10 nos				734.18
	Cost of each				73.42
	Say				73.40

- 9.83 Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
2456	MATERIAL: Hydraulic door closer bottle type M.S. body with necessary accessories and screws complete	each	10.00	535.00	5,350.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	273.00	273.00
	TOTAL				5,706.42
	Add Water Charges @ 1%				57.06
	TOTAL				5,763.48
	Add CPOH @ 15%				864.52
	Cost of 10 nos				6,628.00
	Cost of each				662.80
	Say				662.80

- 9.84 Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
7060	MATERIAL: Hydraulic door closer tubular type Aluminium section body	each	10.00 8	10.00	8,100.00
0451	Brass screws 30 mm	100 nos	60.00	130.00	78.00
9999	Carriage of materials	L.S.	1.00	1.49	1.49
	LABOUR:				
0112	Carpenter 2nd class	day	1.00	273.00	273.00
	TOTAL				8,452.49
	Add Water Charges @ 1%				84.52
	TOTAL				8,537.01
	Add CPOH @ 15%				1,280.55
	Cost of 10 nos				9,817.56
	Cost of each				981.76
	Say				981.75

- 9.85 Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
0423	MATERIAL: Brass casement window fastener	each	10.00	45.00	450.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials	L.S.	0.91	1.49	1.36
0111	LABOUR: Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				519.46
	Add Water Charges @ 1%				5.19
	TOTAL				524.65
	Add CPOH @ 15%				78.70
	Cost of 10 nos				603.35
	Cost of each				60.34
	Say				60.35

9.86 Providing and fixing bright finished brass casement stays (straight peg type) with necessary screws etc. complete:

9.86.1 300 mm weighing not less than 330 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0424	Brass casement stays (straight peg type)	each	10.00	120.00	1,200.00
	300 mm weighing not less than 0.33 kg				
0451	Brass screws 30 mm	100 nos	40.00	130.00	52.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
0111	LABOUR: Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,283.46
	Add Water Charges @ 1%				12.83
	TOTAL				1,296.29
	Add CPOH @ 15%				194.44
	Cost of 10 nos				1,490.73
	Cost of each				149.07
	Say				149.05

9.86.2 250 mm weighing not less than 280 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0425	Brass casement stays (straight peg type)	each	10.00	100.00	1,000.00
	250 mm weighing not less than 0.28 kg				
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
0111	LABOUR: Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,069.46
	Add Water Charges @ 1%				10.69
	TOTAL				1,080.15
	Add CPOH @ 15%				162.02
	Cost of 10 nos				1,242.17
	Cost of each				124.22
	Say				124.20

9.86.3 200 mm weighing not less than 240 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0426	Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.00	90.00	900.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				969.46
	Add Water Charges @ 1%				9.69
	TOTAL				979.15
	Add CPOH @ 15%				146.87
	Cost of 10 nos				1,126.02
	Cost of each				112.60
	Say				112.60

9.87 Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete:**9.87.1 150 mm**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0431	Brass hasps and staples (safety type) 150 mm	10 Nos	10.00	700.00	700.00
0452	Brass screws 25 mm	100 nos	80.00	95.00	76.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				802.79
	Add Water Charges @ 1%				8.03
	TOTAL				810.82
	Add CPOH @ 15%				121.62
	Cost of 10 nos				932.44
	Cost of each				93.24
	Say				93.25

9.87.2 115 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0432	Brass hasps and staples (safety type) 115 mm	10 nos	10.00	600.00	600.00
0453	Brass screws 20 mm	100 nos	70.00	80.00	56.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				682.79
	Add Water Charges @ 1%				6.83
	TOTAL				689.62
	Add CPOH @ 15%				103.44
	Cost of 10 nos				793.06
	Cost of each				79.31
	Say				79.30

9.87.3 90 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0433	Brass hasps and staples (safety type) 90 mm	10 nos	10.00	500.00	500.00
0453	Brass screws 20 mm	100 nos	70.00	80.00	56.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				582.79
	Add Water Charges @ 1%				5.83
	TOTAL				588.62
	Add CPOH @ 15%				88.29
	Cost of 10 nos				676.91
	Cost of each				67.69
	Say				67.70

9.88 Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	1.00	500.00	500.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.49	5.42
	TOTAL				556.59
	Add Water Charges @ 1%				5.57
	TOTAL				562.16
	Add CPOH @ 15%				84.32
	Cost of each				646.48
	Say				646.50

9.89 Providing and fixing chromium plated brass night latch of approved quality including necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0583	Chromium plated Brass Night latch	each	1.00	500.00	500.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR:				
	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries (screws, carriage etc.)	L.S.	3.64	1.49	5.42
	TOTAL				556.59
	Add Water Charges @ 1%				5.57
	TOTAL				562.16
	Add CPOH @ 15%				84.32
	Cost of each				646.48
	Say				646.50

9.90 Providing and fixing special quality chromium plated brass cupboard locks with six levers of approved quality including necessary screws etc. complete.

9.90.1 Size 40 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
2468	MATERIAL:				
	Nickled Chromium Brass cupboard lock 40 mm size	each	1.00	62.00	62.00
0111	LABOUR:				
	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				118.59
	Add Water Charges @ 1%				1.19
	TOTAL				119.78
	Add CPOH @ 15%				17.97
	Cost of each				137.75
	Say				137.75

9.90.2 Size 50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
2469	MATERIAL:				
	Nickled Chromium Brass cupboard lock 50 mm size	each	1.00	70.00	70.00
0111	LABOUR:				
	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				126.59
	Add Water Charges @ 1%				1.27
	TOTAL				127.86
	Add CPOH @ 15%				19.18
	Cost of each				147.04
	Say				147.05

9.90.3 Size 65 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
2470	MATERIAL:				
	Nickled Chromium Brass cupboard lock 65 mm size	each	1.00	82.00	82.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR:				
	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				138.59
	Add Water Charges @ 1%				1.39
	TOTAL				139.98
	Add CPOH @ 15%				21.00
	Cost of each				160.98
	Say				161.00

9.90.4 Size 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
2471	MATERIAL:				
	Nickled Chromium Brass cupboard lock 75 mm size	each	1.00	103.00	103.00
0111	LABOUR:				
	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries & screws	L.S.	3.64	1.49	5.42
	TOTAL				159.59
	Add Water Charges @ 1%				1.60
	TOTAL				161.19
	Add CPOH @ 15%				24.18
	Cost of each				185.37
	Say				185.35

9.91 Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
0584	MATERIAL:				
	Chromium plated Brass Wardrobe Knob 50 mm	each	10.00	45.00	450.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
0111	LABOUR:				
	Carpenter 1 st class	day	0.14	301.00	42.14
	TOTAL				496.21
	Add Water Charges @ 1%				4.96
	TOTAL				501.17
	Add CPOH @ 15%				75.18
	Cost of 10 nos				576.35
	Cost of each				57.64
	Say				57.65

9.92 Providing and fixing chromium plated brass handles with necessary screws etc. complete:

9.92.1 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	10.00	160.00	1,600.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,660.13
	Add Water Charges @ 1%				16.60
	TOTAL				1,676.73
	Add CPOH @ 15%				251.51
	Cost of 10 nos				1,928.24
	Cost of each				192.82
	Say				192.80

9.92.2 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	10.00	140.00	1,400.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,457.42
	Add Water Charges @ 1%				14.57
	TOTAL				1,471.99
	Add CPOH @ 15%				220.80
	Cost of 10 nos				1,692.79
	Cost of each				169.28
	Say				169.30

9.92.3 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0557	Chromium plated Brass handles 75mm with plate 125x32 mm	each	10.00	120.00	1,200.00
0452	Brass screws 25 mm	100 nos	40.00	95.00	38.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				1,257.42
	Add Water Charges @ 1%				12.57
	TOTAL				1,269.99
	Add CPOH @ 15%				190.50
	Cost of 10 nos				1,460.49
	Cost of each				146.05
	Say				146.05

9.93 Providing and fixing chromium plated brass casement window fastener with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0568	Chromium plated brass casement window fastener	each	10.00	90.00	900.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				977.46
	Add Water Charges @ 1%				9.77
	TOTAL				987.23
	Add CPOH @ 15%				148.08
	Cost of 10 nos				1,135.31
	Cost of each				113.53
	Say				113.55

9.94 Providing and fixing chromium plated brass casement stays (straight peg type) with necessary screws etc. complete :

9.94.1 300 mm weighing not less than 330 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0569	Chromium plated Brass casement stays (straight peg type) 300 mm weighing not less than 0.33 kg	each	10.00	140.00	1,400.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,477.46
	Add Water Charges @ 1%				14.77
	TOTAL				1,492.23
	Add CPOH @ 15%				223.83
	Cost of 10 nos				1,716.06
	Cost of each				171.61
	Say				171.60

9.94.2 250 mm weighing not less than 280 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0570	Chromium plated Brass casement stays (straight peg type) 250 mm weighing not less than 0.28 kg	each	10.00	120.00	1,200.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,277.46
	Add Water Charges @ 1%				12.77
	TOTAL				1,290.23
	Add CPOH @ 15%				193.53
	Cost of 10 nos				1,483.76
	Cost of each				148.38
	Say				148.40

9.94.3 200 mm weighing not less than 240 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0571	Chromium plated Brass casement stays (straight peg type) 200 mm weighing not less than 0.24 kg	each	10.00	100.00	1,000.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				1,077.46
	Add Water Charges @ 1%				10.77
	TOTAL				1,088.23
	Add CPOH @ 15%				163.23
	Cost of 10 nos				1,251.46
	Cost of each				125.15
	Say				125.15

9.95 Providing and fixing ISI marked aluminium butt hinges anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :**9.95.1 125x75x4 mm**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0687	Anodised Aluminium butt hinges 125x75x4 mm	10 nos	10.00	550.00	550.00
0585	Chromium plated Brass screws 50 mm	100 nos	100.00	230.00	230.00
9999	Carriage of materials	L.S.	3.64	1.49	5.42

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR:				
	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				849.79
	Add Water Charges @ 1%				8.50
	TOTAL				858.29
	Add CPOH @ 15%				128.74
	Cost of 10 nos				987.03
	Cost of each				98.70
	Say				98.70

9.95.2 125x63x4 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0688	Anodised Aluminium butt hinges 125x63x4 mm	10 nos	10.00	510.00	510.00
0585	Chromium plated Brass screws 50 mm	100 nos	100.00	230.00	230.00
9999	Carriage of materials	L.S.	3.64	1.49	5.42
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				809.79
	Add Water Charges @ 1%				8.10
	TOTAL				817.89
	Add CPOH @ 15%				122.68
	Cost of 10 nos				940.57
	Cost of each				94.06
	Say				94.05

9.95.3 100x75x4 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0689	Anodised Aluminium butt hinges 100x75x4 mm	10 nos	10.00	500.00	500.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	190.00	152.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				720.44
	Add Water Charges @ 1%				7.20
	TOTAL				727.64
	Add CPOH @ 15%				109.15
	Cost of 10 nos				836.79
	Cost of each				83.68
	Say				83.70

9.95.4 100x63x4 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0691	Anodised Aluminium butt hinges 100x63x4 mm	10 nos	10.00	490.00	490.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	190.00	152.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				710.44
	Add Water Charges @ 1%				7.10
	TOTAL				717.54
	Add CPOH @ 15%				107.63
	Cost of 10 nos				825.17
	Cost of each				82.52
	Say				82.50

9.95.5 100x63x3.2 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0690	Anodised Aluminium butt hinges 100x63x3.2 mm	10 nos	10.00	480.00	480.00
0586	Chromium plated Brass screws 40 mm	100 Nos	80.00	190.00	152.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				700.44
	Add Water Charges @ 1%				7.00
	TOTAL				707.44
	Add CPOH @ 15%				106.12
	Cost of 10 nos				813.56
	Cost of each				81.36
	Say				81.35

9.95.6 75x63x4 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0692	Anodised Aluminium butt hinges 75x63x4 mm	10 nos	10.00	475.00	475.00
0587	Chromium plated Brass screws 30 mm	100 nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				632.08
	Add Water Charges @ 1%				6.32
	TOTAL				638.40
	Add CPOH @ 15%				95.76
	Cost of 10 nos				734.16
	Cost of each				73.42
	Say				73.40

9.95.7 75x63x3.2 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0693	Anodised Aluminium butt hinges 75x63x3.2 mm	10 nos	10.00	450.00	450.00
0587	Chromium plated Brass screws 30 mm	100 nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				607.08
	Add Water Charges @ 1%				6.07
	TOTAL				613.15
	Add CPOH @ 15%				91.97
	Cost of 10 nos				705.12
	Cost of each				70.51
	Say				70.50

9.95.8 75x45x3.2 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0694	Anodised Aluminium butt hinges 75x45x3.2 mm	10 nos	10.00	390.00	390.00
0587	Chromium plated Brass screws 30 mm	100 nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				547.08
	Add Water Charges @ 1%				5.47
	TOTAL				552.55
	Add CPOH @ 15%				82.88
	Cost of 10 nos				635.43
	Cost of each				63.54
	Say				63.55

9.96 Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete:

9.96.1 300x16 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0696	Anodised Aluminium sliding door bolt 300x16 mm	each	10.00	155.00	1,550.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	5.46	1.49	8.14
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
	TOTAL				1,754.64
	Add Water Charges @ 1%				17.55
	TOTAL				1,772.19
	Add CPOH @ 15%				265.83
	Cost of 10 nos				2,038.02
	Cost of each				203.80
	Say				203.80

9.96.2 250x16 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0697	Anodised Aluminium sliding door bolt 250x16 mm	each	10.00	125.00	1,250.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	5.46	1.49	8.14
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
	TOTAL				1,454.64
	Add Water Charges @ 1%				14.55
	TOTAL				1,469.19
	Add CPOH @ 15%				220.38
	Cost of 10 nos				1,689.57
	Cost of each				168.96
	Say				168.95

9.97 Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc. complete:

9.97.1 300x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	10 nos	10.00	700.00	700.00
0587	Chromium plated Brass screws 30 mm	100 nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	4.42	1.49	6.59

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR: Carpenter 1 st class	day	0.125	301.00	37.62
	TOTAL				864.21
	Add Water Charges @ 1%				8.64
	TOTAL				872.85
	Add CPOH @ 15%				130.93
	Cost of 10 nos				1,003.78
	Cost of each				100.38
	Say				100.40

9.97.2 250x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	10 nos	10.00	580.00	580.00
0587	Chromium plated Brass screws 30 mm	100 nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	4.42	1.49	6.59
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	301.00	37.62
	TOTAL				744.21
	Add Water Charges @ 1%				7.44
	TOTAL				751.65
	Add CPOH @ 15%				112.75
	Cost of 10 nos				864.40
	Cost of each				86.44
	Say				86.45

9.97.3 200x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	10 nos	10.00	450.00	450.00
0587	Chromium plated Brass screws 30 mm	100 nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.125	301.00	37.62
	TOTAL				611.69
	Add Water Charges @ 1%				6.12
	TOTAL				617.81
	Add CPOH @ 15%				92.67
	Cost of 10 nos				710.48
	Cost of each				71.05
	Say				71.05

9.97.4 150x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	10 nos	10.00	360.00	360.00
0587	Chromium plated Brass screws 30 mm	100 nos	80.00	150.00	120.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				508.15
	Add Water Charges @ 1%				5.08
	TOTAL				513.23
	Add CPOH @ 15%				76.98
	Cost of 10 nos				590.21
	Cost of each				59.02
	Say				59.00

9.97.5 100x10 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0702	Anodised Aluminium tower bolt (barrel type) 100x10 mm	10 nos	10.00	280.00	280.00
0587	Chromium plated Brass screws 30 mm	100 nos	60.00	150.00	90.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.08	301.00	24.08
	TOTAL				398.15
	Add Water Charges @ 1%				3.98
	TOTAL				402.13
	Add CPOH @ 15%				60.32
	Cost of 10 nos				462.45
	Cost of each				46.25
	Say				46.25

9.98 Providing and fixing aluminium pull bolt lock, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour and shade, with necessary screws bolts, nut and washers etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 pull bolt lock</i>				
	MATERIAL:				
2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10.00	46.00	460.00
9999	Carriage of materials	L.S.	6.37	1.49	9.49

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
	TOTAL				537.74
	Add Water Charges @ 1%				5.38
	TOTAL				543.12
	Add CPOH @ 15%				81.47
	Cost of 10 nos				624.59
	Cost of each				62.46
	Say				62.45

9.99 Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS :1868), transparent or dyed to required colour or shade, with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0706	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	each	10.00	125.00	1,250.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	5.46	1.49	8.14
	LABOUR:				
0111	Carpenter 1 st class	day	0.07	301.00	21.07
0114	Beldar	day	0.05	247.00	12.35
	TOTAL				1,337.56
	Add Water Charges @ 1%				13.38
	TOTAL				1,350.94
	Add CPOH @ 15%				202.64
	Cost of 10 nos				1,553.58
	Cost of each				155.36
	Say				155.35

9.100 Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:

9.100.1 125 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	10 nos	10.00	470.00	470.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR: Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				538.13
	Add Water Charges @ 1%				5.38
	TOTAL				543.51
	Add CPOH @ 15%				81.53
	Cost of 10 nos				625.04
	Cost of each				62.50
	Say				62.50

9.100.2 100 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 nos	10.00	360.00	360.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				426.77
	Add Water Charges @ 1%				4.27
	TOTAL				431.04
	Add CPOH @ 15%				64.66
	Cost of 10 nos				495.70
	Cost of each				49.57
	Say				49.55

9.100.3 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
0705	Anodised Aluminium handles 75mm with plate 125 x 32 mm	10 nos	10.00	300.00	300.00
0589	Chromium plated Brass screws 20 mm	100 nos	40.00	100.00	40.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.06	301.00	18.06
	TOTAL				360.77
	Add Water Charges @ 1%				3.61
	TOTAL				364.38
	Add CPOH @ 15%				54.66
	Cost of 10 nos				419.04
	Cost of each				41.90
	Say				41.90

9.101 Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

9.101.1 Single rubber stopper

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2459	Anodised Aluminium hanging type door stopper	each	10.00	21.00	210.00
0588	Chromium plated Brass screws 25 mm	100 nos	20.00	115.00	23.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	301.00	9.03
	TOTAL				246.10
	Add Water Charges @ 1%				2.46
	TOTAL				248.56
	Add CPOH @ 15%				37.28
	Cost of 10 nos				285.84
	Cost of each				28.58
	Say				28.60

9.101.2 Twin rubber stopper

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
7059	Aluminium hanging floor door stopper with twin rubber & stopper	each	10.00	58.00	580.00
0588	Chromium plated Brass screws 25 mm	100 nos	20.00	115.00	23.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	0.03	301.00	9.03
	TOTAL				616.10
	Add Water Charges @ 1%				6.16
	TOTAL				622.26
	Add CPOH @ 15%				93.34
	Cost of 10 nos				715.60
	Cost of each				71.56
	Say				71.55

9.102 Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 nos.</i>				
	MATERIAL:				
2465	Anodised Aluminium Casement stay 250 mm	each	10.00	46.00	460.00
0588	Chromium plated Brass screws 25 mm	100 nos	40.00	115.00	46.00
9999	Carriage of materials	L.S.	0.91	1.49	1.36
	LABOUR:				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
	TOTAL				537.46
	Add Water Charges @ 1%				5.37
	TOTAL				542.83
	Add CPOH @ 15%				81.42
	Cost of 10 nos				624.25
	Cost of each				62.43
	Say				62.40

9.103 Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 lock</i>				
	MATERIAL:				
7001	Brass 100mm mortice latch and lock with 6 levers without pair of handles	each	1.00	250.00	250.00
7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	1.00	300.00	300.00
	LABOUR:				
0111	Carpenter 1 st class	day	0.17	301.00	51.17
9999	Sundries including carriage of materials	L.S.	4.55	1.49	6.78
	TOTAL				607.95
	Add Water Charges @ 1%				6.08
	TOTAL				614.03
	Add CPOH @ 15%				92.10
	Cost of each				706.13
	Say				706.15

9.104 Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2m long</i>				
7056	MATERIAL: Aluminium tee channel (heavy duty) with rollers and stop end	metre	2.00	45.00	90.00
9999	Labour	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	1.43	1.49	2.13
	TOTAL				96.20
	Add Water Charges @ 1%				0.96
	TOTAL				97.16
	Add CPOH @ 15%				14.57
	Cost of 2 metre				111.73
	Cost of 1 metre				55.87
	Say				55.85

9.105 Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/ sqm(both side inclusive), consisting of floor and ceiling channel 50 mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.

9.105.1 75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel)</i>				
7366	MATERIAL: Glass reinforced Gypsum (GRG) board 12.5 mm thick	sqm	43.80	230.00	10,074.00
	50mm floor and ceiling channel 2x6.00 =12m				
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	metre	12.00	60.00	720.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7369	48mm stud-72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	72.00	2,890.80
7020	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 nos	392.00	56.00	219.52
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	48.00	1,056.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	65.00	313.30
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	140.00	81.76
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 nos	44.00	20.00	88.00
1211	G.I. plain washer for seam bolts	100 nos	44.00	32.00	14.08
9999	Sundries and carriage	L.S.	52.00	1.49	77.48
9999	Sundries scaffolding Labour for 21.90 sqm.	L.S.	130.00	1.49	193.70
0111	Carpenter 1 st class 0.3x21.90	day	6.57	301.00	1,977.57
0112	Carpenter 2nd class 0.13x21.90	day	2.847	273.00	777.23
0131	Painter 0.05x21.90	day	1.095	273.00	298.94
0114	Beldar 0.35x21.90	day	7.665	247.00	1,893.26
	TOTAL				21,602.52
	Add Water Charges @ 1%				216.03
	TOTAL				21,818.55
	Add CPOH @ 15%				3,272.78
	Cost of 21.9 sqm				25,091.33
	Cost of 1 sqm				1,145.72
	Say				1,145.70

9.105.2 75 mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum board conforming to IS: 2095: part I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8717	Details of cost for 6.00x3.65 = 21.9 sqm (Partition Panel) MATERIAL: 12.5 mm thick Glass fibre reinforced Gypsum board Gypsum board -2x6.00x3.65=43.80sqm	sqm	43.80	160.00	7,008.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm $2 \times 6.00 = 12\text{m}$	metre	12.00	60.00	720.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm $72 \times 34 \times 36 \times 0.5\text{mm}$ $(6.00/0.61)+1 = 11 \times 3.65 = 40.15\text{m}$	metre	40.15	72.00	2,890.80
7020	All drive screws (for gypsum board) $[(3.65/0.30)+1] \times 11 \times 2 = 308$ $[(6.00/0.30)+1] \times 2 \times 2 = 84$ Total = 392	100 nos	392.00	56.00	219.52
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt $[(6.00/0.61)+1] \times 2 = 22$	each	22.00	48.00	1,056.00
7048	Rawl plug 50 mm (designation 10 nos) $[(3.65/0.45)+1] \times 2 = 18$	each	18.00	10.00	180.00
0869	Plaster of Paris $(88/100) \times 21.9 = 19.27$	kilogram	19.27	4.00	77.08
0763	Glue $(22/100) \times 21.90 = 4.82$	kilogram	4.82	65.00	313.30
7018	Joint tape roll (120m roll) $(300/100) \times 21.90/120 = 0.584$ Nos.	roll	0.584	140.00	81.76
7021	Primer (for gypsum board) $(36/100) \times 21.90 = 7.88$ litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots $11 \times 2 \times 2 = 44$	10 nos	44.00	20.00	88.00
1211	G.I. plain washer for seam bolts	100 nos	44.00	32.00	14.08
9999	Sundries carriage	L.S.	52.00	1.49	77.48
9999	Sundries scaffolding	L.S.	130.00	1.49	193.70
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3×21.90	day	6.57	301.00	1,977.57
0112	Carpenter 2nd class 0.13×21.90	day	2.847	273.00	777.23
0131	Painter 0.05×21.90	day	1.095	273.00	298.94
0114	Beldar 0.35×21.90	day	7.665	247.00	1,893.26
	TOTAL				18,536.52
	Add Water Charges @ 1%				185.37
	TOTAL				18,721.89
	Add CPOH @ 15%				2,808.28
	Cost of 21.9 sqm				21,530.17
	Cost of 1 sqm				983.11
	Say				983.10

9.105.3 66 mm overall thickness Partition with 8 mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq cm, Bending Strength 100 kg/ sq cm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for $6.00 \times 3.65 = 21.9$ sqm. (Partition Panel)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8699	MATERIAL: 8 mm thick tapered edge calcium silicate board	sqm	43.80	223.00	9,767.40
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 = 12m	metre	12.00	60.00	720.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65= 40.15m	metre	40.15	72.00	2,890.80
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 nos	392.00	56.00	219.52
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	48.00	1,056.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	65.00	313.30
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 Nos	roll	0.584	140.00	81.76
7021	Primer (for gypsum board) (36/100)x21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 nos	44.00	20.00	88.00
1211	G.I. plain washer for seam bolts	100 nos	44.00	32.00	14.08
9999	Sundries carriage	L.S.	52.00	1.49	77.48
9999	Sundries scaffolding	L.S.	130.00	1.49	193.70
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3x21.90	day	6.57	301.00	1,977.57
0112	Carpenter 2nd class 0.13x21.90	day	2.847	273.00	777.23
0131	Painter 0.05x21.90	day	1.095	273.00	298.94
0114	Beldar 0.35x21.90	day	7.665	247.00	1,893.26
	TOTAL				21,295.92
	Add Water Charges @ 1%				212.96
	TOTAL				21,508.88
	Add CPOH @ 15%				3,226.33
	Cost of 21.9 sqm				24,735.21
	Cost of 1 sqm				1,129.46
	Say				1,129.45

9.105.4 66 mm overall thickness partition using 8 mm thick double skin non- asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (High pressure steam cured) as per IS: 14862 with suitable fibre cement screws

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for</i> MATERIAL:				
0237	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 8 mm thick	sqm	43.80	206.00	9,022.80
7367	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm 2x6.00 =12m	metre	12.00	60.00	720.00
7369	Galvanised M.S. sheet 0.50 mm thick pressed stud : 48x34x36 mm 72x34x36x0.5mm (6.00/0.61)+1 = 11x3.65 = 40.15m	metre	40.15	72.00	2,890.80
7020	All drive screws (for gypsum board) [(3.65/0.30)+1]x11x2 = 308 [(6.00/0.30)+1]x2x2=84 Total = 392	100 nos	392.00	56.00	219.52
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt [(6.00/0.61)+1]x2=22	each	22.00	48.00	1,056.00
7048	Rawl plug 50 mm (designation 10 nos) [(3.65/0.45)+1]x2= 18	each	18.00	10.00	180.00
0869	Plaster of Paris (88/100)x21.9 = 19.27	kilogram	19.27	4.00	77.08
0763	Glue (22/100)x21.90=4.82	kilogram	4.82	65.00	313.30
7018	Joint tape roll (120m roll) (300/100)x21.90/120 = 0.584 No	roll	0.584	140.00	81.76
7021	Primer (for gypsum board) (36/100)21.90 = 7.88 litre	litre	7.88	85.00	669.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots 11x2x2=44	10 nos	44.00	20.00	88.00
1211	G.I. plain washer for seam bolts	100 nos	44.00	32.00	14.08
9999	Sundries carriage	L.S.	52.00	1.49	77.48
9999	Sundries scaffolding	L.S.	130.00	1.49	193.70
	Labour for 21.90 sqm.				
0111	Carpenter 1 st class 0.3x21.90	day	6.57	301.00	1,977.57
0112	Carpenter 2nd class 0.13x21.90	day	2.847	273.00	777.23
0131	Painter 0.05x21.90	day	1.095	273.00	298.94
0114	Beldar 0.35x21.90	day	7.665	247.00	1,893.26
	TOTAL				20,551.32
	Add Water Charges @ 1%				205.51
	TOTAL				20,756.83
	Add CPOH @ 15%				3,113.52
	Cost of 21.9 sqm				23,870.35
	Cost of 1 sqm				1,089.97
	Say				1,089.95

9.106 Providing and fixing PTMT handles with necessary screws etc. complete.**9.106.1 125x34x24 mm weighing not less than 23 gms**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7512	PTMT handle 125x34x24 mm	each	10.00	30.00	300.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	40.00	30.00	12.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
	TOTAL				332.45
	Add Water Charges @ 1%				3.32
	TOTAL				335.77
	Add CPOH @ 15%				50.37
	Cost of 10 nos.				386.14
	Cost of each				38.61
	Say				38.60

9.106.2 150x34x24 mm weighing not less than 26 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7513	PTMT handle 150x34x24 mm	each	10.00	34.00	340.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	40.00	30.00	12.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0112	Carpenter 2nd class	day	0.06	273.00	16.38
	TOTAL				372.45
	Add Water Charges @ 1%				3.72
	TOTAL				376.17
	Add CPOH @ 15%				56.43
	Cost of 10 nos.				432.60
	Cost of each				43.26
	Say				43.25

9.107 Providing and fixing PTMT Butt hinges with necessary screws etc. complete.**9.107.1 75x60x10 mm fitted with 5.5 mm dia M.S. Bright Bar Rod weighing not less than 34 gms**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL				
7514	PTMT butt hinges 75x60x10 mm	each	10.00	42.00	420.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of materials	L.S.	1.82	1.49	2.71
	LABOUR :				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				507.16

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add Water Charges @ 1%				5.07
	TOTAL				512.23
	Add CPOH @ 15%				76.83
	Cost of 10 nos.				589.06
	Cost of each				58.91
	Say				58.90

9.107.2 100x75x10 mm fitted with 5.5 mm dia MS Bright Bar Rod weighing not less than 53 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos.</i>				
	MATERIAL :				
7515	PTMT butt hinges 100x75x10 mm	each	10.00	56.00	560.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	80.00	50.00	40.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.09	247.00	22.23
	TOTAL				664.52
	Add Water Charges @ 1%				6.65
	TOTAL				671.17
	Add CPOH @ 15%				100.68
	Cost of 10 nos				771.85
	Cost of each				77.19
	Say				77.20

9.108 Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete.

9.108.1 152x42x18 mm weighing not less than 60 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7516	PTMT Tower bolt 152x42x18 mm	each	10.00	65.00	650.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	60.00	40.00	24.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0112	Carpenter 2nd class	day	0.08	273.00	21.84
	TOTAL				699.91
	Add Water Charges @ 1%				7.00
	TOTAL				706.91
	Add CPOH @ 15%				106.04
	Cost of 10 nos				812.95
	Cost of each				81.30
	Say				81.30

9.108.2 202x42x18 mm weighing not less than 78 gms

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7517	PTMT Tower bolt 202x42x18 mm	each	10.00	80.00	800.00
0638	Bright finished or black enameled mild steel screws 30 mm	100 nos	80.00	40.00	32.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0112	Carpenter 2nd class	day	0.10	273.00	27.30
	TOTAL				863.37
	Add Water Charges @ 1%				8.63
	TOTAL				872.00
	Add CPOH @ 15%				130.80
	Cost of 10 nos				1,002.80
	Cost of each				100.28
	Say				100.30

9.109 Providing and fixing PTMT door catcher of length 72 mm and dia. of 42 mm with suitable washers weighing not less than 33 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ten nos</i>				
	MATERIAL :				
7518	PTMT door catcher 72x42 mm	each	10.00	27.00	270.00
0639	Bright finished or black enameled mild steel screws 25 mm	100 nos	20.00	30.00	6.00
9999	Carriage of materials	L.S.	2.73	1.49	4.07
	LABOUR :				
0111	Carpenter 1 st class	day	0.03	301.00	9.03
	TOTAL				289.10
	Add Water Charges @ 1%				2.89
	TOTAL				291.99
	Add CPOH @ 15%				43.80
	Cost of 10 nos				335.79
	Cost of each				33.58
	Say				33.60

9.110 Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25 mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hallock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support, complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a bamboo jaffery of size 1.00mx2.10m = 2.10sqm</i>				
	MATERIAL:				
	Bamboo 25mm of 100/ 2.50 = 40 Nos				
	Half cut off = 40/2 =20 Nos. x 2.10 = 42.00m				
	Add wastage @ 15% = 6.30 m				
	Total = 48.30m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Rate of Bamboo 25 mm dia 2.5 metre long for one score i.e. 20nos is Rs. 192 for 48.30m qty $48.30 / (2.5 * 20) = 0.966$				
0305	Bamboo 25 mm dia 2.5 metre long	score	0.966	300.00	289.80
9999	Carriage of bamboo	L.S.	4.83	1.49	7.20
2466	Hollock wood in scantling 3 Nos. $(1.00 \times 0.05 \times 0.025) = 0.00375$ cum Add wastage @ 5% = 0.00019 cum Total = 0.00394 cum or 3.94 cudm	10 cudm	3.94	310.00	122.14
2204	Carriage of timber	cum	0.00394	100.11	0.39
9999	Nails and wire	L.S.	20.25	1.49	30.17
	LABOUR:				
0112	Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	10.05	1.49	14.97
	TOTAL				594.67
	Add Water Charges @ 1%				5.95
	TOTAL				600.62
	Add CPOH @ 15%				90.09
	Cost of 2.1 sqm				690.71
	Cost of 1 sqm				328.91
	Say				328.90

9.111 Providing and fixing wooden moulded corner beading of triangular shape to the junction of panelling etc. with iron screws, plugs and priming coat on unexposed surface etc. complete 2nd class teak wood.

9.111.1 50x50 mm (base and height)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for beading = 5.00 m</i>				
	MATERIAL:				
	Teak wood 2nd class in plan ks $5.00 \times 0.05 \times 0.05 / 2 = 0.00625$ cum Add wastage @ 10% = 0.00063 Total = 0.00688 cum say 6.88 cudm				
1190	Second class teak wood in planks	10 cudm	6.88	720.00	495.36
2204	Carriage of timber	cum	0.00688	100.11	0.69
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	6.00	50.00	3.00
	Priming coat				
	Area $5.0 \times (.05 + .05) = 0.50$ sqm				
13.50.1	Rate as per Item Number 13.50.1 of SH:	sqm	0.50	25.85	12.92 (A)
	Finishing				
	LABOUR:				
0111	For planing, fixing & making design				
	Carpenter 1 st class	day	0.75	301.00	225.75
	TOTAL				737.72
	Add Water Charges @ 1% except on A i.e on $(737.72 - 12.92) =$				7.25
	TOTAL				744.97
	Add CPOH @ 15% except on A i.e on $(744.97 - 12.92) =$				109.81
	Cost of 5 metre				854.78
	Cost of 1 metre				170.96
	Say				170.95

9.112 Providing and fixing 2nd class teak wood lipping / moulded beading or taj beading of size 18X5 mm fixed with wooden adhesive of approved quality and screws / nails on the edges of the Pre-laminated particle board as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8719	<i>Details of cost for 10.00 m</i> MATERIAL: 2nd class teak wood lipping / moulded beading or Taj beading of size 18X5 mm	metre	10.00	25.00	250.00
0112	LABOUR: Carpenter 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.25	247.00	61.75
	TOTAL				380.00
	Add Water Charges @ 1%				3.80
	TOTAL				383.80
	Add CPOH @ 15%				57.57
	Cost of 10 metre				441.37
	Cost of 1 metre				44.14
	Say				44.15

9.113 Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8716	<i>Details of cost for 1 No.</i> 100 mm mortice lock with 6 levers for aluminium door	each	1.00	310.00	310.00
0111	LABOUR: Carpenter 1 st class	day	0.13	301.00	39.13
9999	Sundries (screws, carriage etc.)	L.S.	2.60	1.49	3.87
	TOTAL				353.00
	Add Water Charges @ 1%				3.53
	TOTAL				356.53
	Add CPOH @ 15%				53.48
	Cost of each				410.01
	Say				410.00

9.114 Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete.

9.114.1 Triple strip vertical type

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8714	<i>Details of cost for 1 No.</i> MATERIAL: Magnetic catcher triple strip vertical type	each	1.00	15.00	15.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.49	3.87
	TOTAL				18.87
	Add Water Charges @ 1%				0.19
	TOTAL				19.06
	Add CPOH @ 15%				2.86
	Cost of each				21.92
	Say				21.90

9.114.2 Double strip (horizontal type)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one no.</i>				
	MATERIAL:				
8715	Magnetic catcher double strip horizontal type	each	1.00	12.00	12.00
9999	Sundries including screws and fixing charges.	L.S.	2.60	1.49	3.87
	TOTAL				15.87
	Add Water Charges @ 1%				0.16
	TOTAL				16.03
	Add CPOH @ 15%				2.40
	Cost of each				18.43
	Say				18.45

9.115 Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sets</i>				
	MATERIAL:				
8703	Telescopic drawer channels 300 mm long	set	10.00	135.00	1,350.00
9999	Carriage	L.S.	19.50	1.49	29.06
9999	Sundries including screws and fixing charges.	L.S.	100.10	1.49	149.15
	TOTAL				1,528.21
	Add Water Charges @ 1%				15.28
	TOTAL				1,543.49
	Add CPOH @ 15%				231.52
	Cost of 10 sets				1,775.01
	Cost of one set				177.50
	Say				177.50

9.116 Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
8704	Stainless steel roller for sliding arrangement in racks/ cupboards/cabinets shutter	each	1.00	8.00	8.00
9999	Labour for fixing	L.S.	1.04	1.49	1.55
	TOTAL				9.55
	Add Water Charges @ 1%				0.10
	TOTAL				9.65
	Add CPOH @ 15%				1.45
	Cost of each				11.10
	Say				11.10

9.117 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge

9.117.1 Extruded section profile size 48x40 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8010	<i>Details of cost for 5 metre</i> MATERIAL: 48mmX40mmX1.5mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	142.00	710.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	4.68	1.49	6.97
	TOTAL				797.07
	Add Water Charges @ 1%				7.97
	TOTAL				805.04
	Add CPOH @ 15%				120.76
	Cost of 5 metre				925.80
	Cost of 1 metre				185.16
	Say				185.15

9.117.2 Extruded section profile size 42x50 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8705	<i>Details of cost for 5 metre</i> MATERIAL: 50 mmX42 mmX2 mm thick Factory made door frame of PVC extruded sections in white, grey or wooden finish	metre	5.00	135.00	675.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	4.68	1.49	6.97
	TOTAL				762.07
	Add Water Charges @ 1%				7.62
	TOTAL				769.69
	Add CPOH @ 15%				115.45
	Cost of 5 metre				885.14
	Cost of 1 metre				177.03
	Say				177.05

9.118 Providing and fixing to existing door frames.

9.118.1 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting

galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8001	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i> MATERIAL: 24 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish including carriage	sqm	2.38	2,025.00	4,819.50
0156	LABOUR: Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,063.44
	Add Water Charges @ 1%				50.63
	TOTAL				5,114.07
	Add CPOH @ 15%				767.11
	Cost of 2.38 sqm				5,881.18
	Cost of 1 sqm				2,471.08
	Say				2,471.10

9.118.2 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8002	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i> MATERIAL: 30 mm thick Factory made shutters with style, rails and panels of PVC extruded sections in white, grey or wooden finish	sqm	2.38	2,125.00	5,057.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR:				
	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,301.44
	Add Water Charges @ 1%				53.01
	TOTAL				5,354.45
	Add CPOH @ 15%				803.17
	Cost of 2.38 sqm				6,157.62
	Cost of 1 sqm				2,587.24
	Say				2,587.25

9.118.3 25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i>				
8706	MATERIAL: 25 mm thick factory made PVC flush door shutter i/c carriage	sqm	2.38	2,050.00	4,879.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,122.94
	Add Water Charges @ 1%				51.23
	TOTAL				5,174.17
	Add CPOH @ 15%				776.13
	Cost of 2.38 sqm				5,950.30
	Cost of 1 sqm				2,500.13
	Say				2,500.15

- 9.119 Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8011	<i>Details of cost for one door frame of 5 metre</i> MATERIAL: Factory made door frame PVC extruded sheet i/c carriage	metre	5.00	330.00	1,650.00
0156	LABOUR: Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	7.80	1.49	11.62
	TOTAL				1,741.72
	Add Water Charges @ 1%				17.42
	TOTAL				1,759.14
	Add CPOH @ 15%				263.87
	Cost of 5 metre				2,023.01
	Cost of 1 metre				404.60
	Say				404.60

- 9.120 Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.**

9.120.1 30 mm thick plain PVC door shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8003	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i> MATERIAL: Factory made PVC rigid foam panelled shutter i/c carriage	sqm	2.38	2,025.00	4,819.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,121.04
	Add Water Charges @ 1%				51.21
	TOTAL				5,172.25
	Add CPOH @ 15%				775.84
	Cost of 2.38 sqm				5,948.09
	Cost of 1 sqm				2,499.20
	Say				2,499.20

9.120.2 30 mm thick pre laminated PVC door shutters

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8004	Factory made PVC rigid foam panelled shutter as per IS : 4020 i/c carriage	sqm	2.38	2,420.00	5,759.60
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				6,061.14
	Add Water Charges @ 1%				60.61
	TOTAL				6,121.75
	Add CPOH @ 15%				918.26
	Cost of 2.38 sqm				7,040.01
	Cost of 1 sqm				2,957.99
	Say				2,958.00

- 9.121 Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat . Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
8707	MATERIAL: Factory made glass reinforced plastic door frame 90x45 mm i/c carriage	metre	5.00	365.00	1,825.00
0156	LABOUR: Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	7.80	1.49	11.62
	TOTAL				1,916.72
	Add Water Charges @ 1%				19.17
	TOTAL				1,935.89
	Add CPOH @ 15%				290.38
	Cost of 5 metre				2,226.27
	Cost of 1 metre				445.25
	Say				445.25

- 9.122 Providing and fixing to existing door frames.**

- 9.122.1 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
8708	MATERIAL: 30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	sqm	2.38	1,715.00	4,081.70
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				4,383.24
	Add Water Charges @ 1%				43.83
	TOTAL				4,427.07
	Add CPOH @ 15%				664.06
	Cost of 2.38 sqm				5,091.13
	Cost of 1 sqm				2,139.13
	Say				2,139.15

9.122.2 30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter 2.20x1.08m = 2.38 sqm</i>				
	MATERIAL:				
8730	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage	sqm	2.38	1,975.00	4,700.50
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,002.04
	Add Water Charges @ 1%				50.02
	TOTAL				5,052.06
	Add CPOH @ 15%				757.81
	Cost of 2.38 sqm				5,809.87
	Cost of 1 sqm				2,441.12
	Say				2,441.10

9.123 Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8710	MATERIAL: Factory made solid PVC door frame 62 x 32 mm i/c carriage	metre	5.00	270.00	1,350.00
0156	LABOUR: Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	7.80	1.49	11.62
	TOTAL				1,441.72
	Add Water Charges @ 1%				14.42
	TOTAL				1,456.14
	Add CPOH @ 15%				218.42
	Cost of 5 metre				1,674.56
	Cost of 1 metre				334.91
	Say				334.90

9.124 Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer, all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge.

9.124.1 Non decorative finish

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i>				
8712	MATERIAL: 30 mm thick factory made solid PVC profile panelled door single piece extruded profile non decorative finish	sqm	2.38	2,120.00	5,045.60
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5,347.14
	Add Water Charges @ 1%				53.47
	TOTAL				5,400.61
	Add CPOH @ 15%				810.09
	Cost of 2.38 sqm				6,210.70
	Cost of 1 sqm				2,609.54
	Say				2,609.55

9.124.2 Decorative finish (both side wood grained finish)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter</i> <i>2.20x1.08m=2.38 sqm</i>				
	MATERIAL:				
8709	30 mm thick factory made solid PVC profile panelled door single piece extruded profile decorative finish (wood grain printed on both side)	sqm	2.38	2,500.00	5,950.00
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				6,251.54
	Add Water Charges @ 1%				62.52
	TOTAL				6,314.06
	Add CPOH @ 15%				947.11
	Cost of 2.38 sqm				7,261.17
	Cost of 1 sqm				3,050.91
	Say				3,050.90

9.125 Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1.0x0.3m = 0.3 sqm</i>				
	MATERIAL:				
8006	Factory made PVC rigid foam sheet 1 mm thick	sqm	0.33	173.00	57.09
	PVC rigid foam sheet 1mm thick = 0.30 sqm				
	Add wastage @ 10% = 0.03 sqm				
	Total = 0.33 sqm				
9999	Rubber adhesive	L.S.	21.84	1.49	32.54
	LABOUR:				
0111	Carpenter 1 st class	day	0.11	301.00	33.11
0114	Beldar	day	0.14	247.00	34.58
0130	Mistry	day	0.02	301.00	6.02

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				163.34
	Add Water Charges @ 1%				1.63
	TOTAL				164.97
	Add CPOH @ 15%				24.75
	Cost of 0.3 sqm				189.72
	Cost of 1 sqm				632.40
	Say				632.40

9.126 Providing and fixing 12 mm thick panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick.

9.126.1 Marine plywood conforming to IS : 710

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd panelling...200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm</i>				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm				
8724	12 mm thick marine plywood conforming to IS: 710	sqm	0.80	825.00	660.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71
	LABOUR:				
0111	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				840.87
	Add Water Charges @ 1%				8.41
	TOTAL				849.28
	Add CPOH @ 15%				127.39
	Cost of 0.67 sqm				976.67
	Cost of 1 sqm				1,457.72
	Say				1,457.70

9.126.2 Fire retardant plywood conforming to IS : 5509

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shutters of a door with 2/3rd paneling 200x 108cm = 2.16sqm. Panel area = 4x45.1x36.55cm = 0.67sqm</i>				
	MATERIAL:				
	Plywood 4x47.2x38.65cm = 0.73sqm+				
	Add for wastage @ 10% = 0.07sqm.				
	Total = 0.80 sqm				
8725	12 mm thick fire retardant plywood conforming to IS: 5509	sqm	0.80	860.00	688.00
9999	Carriage of plywood	L.S.	1.82	1.49	2.71

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	LABOUR:				
	Carpenter 1 st class	day	0.57	301.00	171.57
9999	Sundries	L.S.	4.42	1.49	6.59
	TOTAL				868.87
	Add Water Charges @ 1%				8.69
	TOTAL				877.56
	Add CPOH @ 15%				131.63
	Cost of 0.67 sqm				1,009.19
	Cost of 1 sqm				1,506.25
	Say				1,506.25

9.127 Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.

9.127.1 1.5 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.00 sqm</i>				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8726	1.5 mm thick decorative laminated sheet	sqm	5.50	475.00	2,612.50
9999	Adhesive	L.S.	195.00	1.49	290.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries i/c nails etc.	L.S.	52.00	1.49	77.48
	TOTAL				3,254.53
	Add Water Charges @ 1%				32.55
	TOTAL				3,287.08
	Add CPOH @ 15%				493.06
	Cost of 5 sqm				3,780.14
	Cost of 1 sqm				756.03
	Say				756.05

9.127.2 1.0 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5.00 sqm</i>				
	MATERIAL:				
	Decorative laminate = 5.00 sqm				
	Add wastage @ 10% = 0.50 sqm				
	Total = 5.50 sqm				
8727	1.0 mm thick decorative laminated sheet	sqm	5.50	350.00	1,925.00
9999	Adhesive	L.S.	195.00	1.49	290.55
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries i/c nails etc.	L.S.	52.00	1.49	77.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2,567.03
	Add Water Charges @ 1%				25.67
	TOTAL				2,592.70
	Add CPOH @ 15%				388.90
	Cost of 5 sqm				2,981.60
	Cost of 1 sqm				596.32
	Say				596.30

- 9.128 Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a chajja 0.90 x 0.60 = 0.54 sqm</i>				
8713	MATERIAL: Fiber glass reinforced plastic chajja including accessories	sqm	0.54	3,460.00	1,868.40
9999	Carriage	L.S.	26.00	1.49	38.74
9999	fixing charges including sundries.	L.S.	143.00	1.49	213.07
	TOTAL				2,120.21
	Add Water Charges @ 1%				21.20
	TOTAL				2,141.41
	Add CPOH @ 15%				321.21
	Cost of 0.54 sqm				2,462.62
	Cost of 1 sqm				4,560.41
	Say				4,560.40

- 9.129 Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS : 12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20 sqm.</i>				
7272	MATERIAL: 25 mm thick melamine faced prelaminated three layer particle board	sqm	2.20	870.00	1,914.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	29.64	1.49	44.16
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	37.00	162.80
0685	Oxidised mild steel screws 25 mm	100 nos	125.00	35.00	43.75
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
0130	Mistry	day	0.07	301.00	21.07
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	39.00	273.00
	TOTAL				2,732.78
	Add Water Charges @ 1%				27.33
	TOTAL				2,760.11
	Add CPOH @ 15%				414.02
	Cost of 2.2 sqm				3,174.13
	Cost of 1 sqm				1,442.79
	Say				1,442.80

9.130 Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge.

9.130.1 With decorative veneering on one side and commercial veneering on other side

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20sqm.</i>				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.20	460.00	1,012.00
0346	Extra for veneered particle board with Teak veneering on one side and commercial veneering on other side	sqm	2.20	235.00	517.00
9999	Carriage	L.S.	29.64	1.49	44.16
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	37.00	162.80
0685	Oxidised mild steel screws 25 mm	100 nos	125.00	35.00	43.75
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
0130	Mistry	day	0.07	301.00	21.07
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	39.00	273.00
	TOTAL				2,347.78
	Add Water Charges @ 1%				23.48
	TOTAL				2,371.26
	Add CPOH @ 15%				355.69
	Cost of 2.2 sqm				2,726.95
	Cost of 1 sqm				1,239.52
	Say				1,239.50

9.130.2 With non decorative veneering on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.00m = 2.20sqm.</i>				
	MATERIAL:				
7269	25 mm thick particle board	sqm	2.20	460.00	1,012.00
0347	Extra for veneered particle board with Commercial veneering on both sides	sqm	2.20	155.00	341.00
9999	Carriage	L.S.	29.64	1.49	44.16
8678	1 mm thick 35 mm wide bright finished stainless steel piano hinges	metre	4.40	37.00	162.80
0685	Oxidised mild steel screws 25 mm	100 nos	125.00	35.00	43.75
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
0130	Mistry	day	0.07	301.00	21.07
7271	IInd class teak wood lipping 25 mm wide x 12 mm thick	metre	7.00	39.00	273.00
	TOTAL				2,171.78
	Add Water Charges @ 1%				21.72
	TOTAL				2,193.50
	Add CPOH @ 15%				329.02
	Cost of 2.2 sqm				2,522.52
	Cost of 1 sqm				1,146.60
	Say				1,146.60

9.131 Providing and fixing factory made shutters of pre-laminated particle board flat pressed three layer or graded wood particle board with one side decorative finish and other side balancing lamination conforming to IS : 12823 Grade I Type II, of approved design, and edges sealed with water resistant paint and lipped with aluminium 'U' type edge beading all-round the shutter, including fixing with angle cleat, grip strip, cadmium plated steel screws, including fixing of aluminium hinges 100x63x4 mm etc. complete as per architectural drawing and direction of Engineer-in-Charge (Cost of 'U' beading and hinges will be paid for separately).

9.131.1 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.10 sqm (Door size 2.1 x 1.00m)</i>				
	MATERIAL:				
	Prelaminated particle board = 2.10sqm. + Add for wastage @ 5% = 0.11 sqm. Total = 2.21sqm				
7445	25 mm thick prelaminated flush door shutter both side decorative	sqm	2.21	790.00	1,745.90
7443	Aluminium single cleat of size 30x32x3 mm	each	4.00	13.00	52.00
7444	Aluminium grip strip of size 50x12x2 mm	each	8.00	10.00	80.00
0834	Synthetic enamel paint in all shades except black or chocolate shade	litre	0.15	135.00	20.25
9999	Carriage of materials including loading and unloading	L.S.	19.50	1.49	29.06
9999	Sundries and screw etc.	L.S.	39.00	1.49	58.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0112	LABOUR:				
	Carpenter 2nd class	day	0.27	273.00	73.71
0114	Beldar	day	0.30	247.00	74.10
	TOTAL				2,133.13
	Add Water Charges @ 1%				21.33
	TOTAL				2,154.46
	Add CPOH @ 15%				323.17
	Cost of 2.1 sqm				2,477.63
	Cost of 1 sqm				1,179.82
	Say				1,179.80

9.132 Providing and fixing aluminum U beading of required size to Pre laminated / flush door shutter, including fixing etc. complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 kg</i>				
	MATERIAL:				
	Aluminum U beading = 1.00kg +				
	Add 10% wastage = 0.10				
	Total = 1.10kg				
7449	Aluminium U beading	kilogram	1.10	208.00	228.80
9999	Anodized 15 micron	L.S.	65.00	1.49	96.85
9999	Sundries including screws, fixing, carriage etc.	L.S.	13.00	1.49	19.37
	TOTAL				345.02
	Add Water Charges @ 1%				3.45
	TOTAL				348.47
	Add CPOH @ 15%				52.27
	Cost of 1 kg				400.74
	Say				400.75

9.133 Providing and fixing, in position concealed G.I. section for wall paneling using board of required thickness fixed on the 'W' profile (0.55 mm thick) having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm, placed @ 610 mm C/C in perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm. Perimeter channel is fixed on the floor and the ceiling with the nylon sleeves @ 610 mm C/C with fully threaded self-tapping dry wall screws. Board is fixed to the 'W' profile with 25 mm countersunk ribbed head screws @ 200 mm C/C., all complete as per the drawing & directions of engineer-in-charge, the joints of the boards are finished with specially formulated jointing compound and 48 mm wide jointing tape to provide seamless finish.

9.133.1 Tapered edge calcium silicate board made with calcareous & siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with compressive strength 225 kg/sqcm, Bending strength 100 kg/sqcm.

9.133.1.1 10 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 mx 3.05 m =11.16 sqm</i>				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Calcium silicate board 10mm thick.= 11.16 sqm Add wastage @ 10% = 1.12 sqm. Total = 12.28 sqm				
8700	10 mm thick calcium silicate board	sqm	12.28	370.00	4,543.60
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	39.00	766.74
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	1.90	79.80
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	72.00	126.72
9999	Jointing compound	L.S.	20.80	1.49	30.99
7018	Joint tape roll	roll	0.19	140.00	26.60
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.00	1.49	77.48
9999	Carriage of materials	L.S.	26.00	1.49	38.74
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	301.00	1,143.80
0114	Beldar	day	4.60	247.00	1,136.20
	TOTAL				8,210.67
	Add Water Charges @ 1%				82.11
	TOTAL				8,292.78
	Add CPOH @ 15%				1,243.92
	Cost of 11.16 sqm				9,536.70
	Cost of 1 sqm				854.54
	Say				854.55

9.133.2 Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw

9.133.2.1 8 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 m x 3.05 m =11.16 sqm</i> MATERIAL: Multipurpose non asbestos fibre cement board 8mm thick.= 11.16 sqm Add wastage @ 10% =1.12 sqm. Total = 12.28 sqm				
0237	Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 8 mm thick	sqm	12.28	206.00	2,529.68
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	39.00	766.74
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	1.90	79.80
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	72.00	126.72
9999	Jointing compound	L.S.	20.80	1.49	30.99

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7018	Joint tape roll	roll	0.19	140.00	26.60
9999	Sundries i/c rawl plug. Scaffolding etc.	L.S.	52.00	1.49	77.48
9999	Carriage of materials	L.S.	26.00	1.49	38.74
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	301.00	1,143.80
0114	Beldar	day	4.60	247.00	1,136.20
	TOTAL				6,196.75
	Add Water Charges @ 1%				61.97
	TOTAL				6,258.72
	Add CPOH @ 15%				938.81
	Cost of 11.16 sqm				7,197.53
	Cost of 1 sqm				644.94
	Say				644.95

9.133.3 Gypsum board conforming to IS: 2095 Part - I

9.133.3.1 12.5 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.66 m x 3.66 m - 11.16 sqm</i>				
	MATERIAL:				
	Glass fibre reinforced gypsum board 12.5 mm thick.= 11.16 sqm				
	Add wastage @ 10% = 1.12 sqm				
	Total = 12.28 sqm				
8717	12.5 mm thick Glass fibre reinforced Gypsum board	sqm	12.28	160.00	1,964.80
8720	Ceiling sections 0.55 mm thick having a knurled web of 51.55 mm and two flanges of 26 mm each with lips of 10.55 mm	metre	19.66	39.00	766.74
8721	Perimeter channel having one flange of 20 mm and another flange of 30 mm with thickness of 0.55 mm and web of length 27 mm	metre	9.60	25.00	240.00
8722	Nylon sleeves & wooden screws (40 mm)	each	42.00	1.90	79.80
8723	Counter sunk ribbed head screw 25 mm	100 Nos	176.00	72.00	126.72
9999	Jointing compound	L.S.	20.80	1.49	30.99
7018	Joint tape roll	roll	0.19	140.00	26.60
9999	Sundries i/c rawl plug, scaffolding etc.	L.S.	52.00	1.49	77.48
9999	Carriage of materials	L.S.	26.00	1.49	38.74
	LABOUR:				
0111	Carpenter 1 st class	day	3.80	301.00	1,143.80
0114	Beldar	day	4.60	247.00	1,136.20
	TOTAL				5,631.87
	Add Water Charges @ 1%				56.32
	TOTAL				5,688.19
	Add CPOH @ 15%				853.23
	Cost of 11.16 sqm				6,541.42
	Cost of 1 sqm				586.15
	Say				586.15

- 9.134 Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws:**
- 9.134.1 35 mm thick shutters**
- 9.134.1.1 with ISI marked M.S. pressed butt hinges bright finished of required size**
- 9.134.1.1.1 Second class teak wood**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i> MATERIAL: Second Class Teak wood Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x9.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Total = 0.0514 cum. Say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.40	720.00	3,700.80
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,838.86
	Add Water Charges @ 1%				58.39
	TOTAL				5,897.25
	Add CPOH @ 15%				884.59
	Cost of 2.16 sqm				6,781.84
	Cost of 1 sqm				3,139.74
	Say				3,139.75

9.134.1.1.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00x1.08m = 2.16sqm</i> MATERIAL: Hollock wood. Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2x110.5x9.7x3.5cm = 0.0152 cum.+ Beadings (2x312+2x150)x(1.2)x(1.2)cm = 0.001 cum. Total = 0.0464 cum.+ Add for wastage @ 10% = 0.005 cum. Grand Total = 0.0514 cum. Say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	350.00	1,799.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
9999	Chemical Treatment	L.S.	8.97	1.49	13.37
	Wire gauge 2x160x40cm = 1.28 sqm.+ Add wastage @ 10% = 0.13 sqm. Total= 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,985.38
	Add Water Charges @ 1%				39.85
	TOTAL				4,025.23
	Add CPOH @ 15%				603.78
	Cost of 2.16 sqm				4,629.01
	Cost of 1 sqm				2,143.06
	Say				2,143.05

9.134.1.1.3 - Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham Wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Styles 4x200x9.5x3.5cm = 0.0266cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3,341.00
2204	Carriage of timber	cum	0.0514	100.11	5.15
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,514.01
	Add Water Charges @ 1%				55.14
	TOTAL				5,569.15
	Add CPOH @ 15%				835.37
	Cost of 2.16 sqm				6,404.52
	Cost of 1 sqm				2,965.06
	Say				2,965.05

9.134.1.2 With ISI marked stainless steel butt hinges of required size

9.134.1.2.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Second class teak wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1190	Second class teak wood in planks	10 cudm	51.40	720.00	3,700.80
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber	cum	0.0514	100.11	5.15
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				6,020.06
	Add Water Charges @ 1%				60.20
	TOTAL				6,080.26
	Add CPOH @ 15%				912.04
	Cost of 2.16 sqm				6,992.30
	Cost of 1 sqm				3,237.18
	Say				3,237.20

9.134.1.2.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Hollock wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beatings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
2505	Hollock wood in planks	10 cudm	51.40	350.00	1,799.00
2504	Kiln seasoning of timber	cum	0.0514	680.00	34.95
9999	Chemical treatment	L.S.	8.97	1.49	13.37
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber LABOUR:	cum	0.0514	100.11	5.15
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,166.58
	Add Water Charges @ 1%				41.67
	TOTAL				4,208.25
	Add CPOH @ 15%				631.24
	Cost of 2.16 sqm				4,839.49
	Cost of 1 sqm				2,240.50
	Say				2,240.50

9.134.1.2.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham wood Styles 4 x 200 x 9.5 x 3.5 cm = 0.0266 cum+ Top Rail - 1x110.5x9.5x3.5cm = 0.0036cum+ Lock and bottom rail 2 x 110.5x19.7x3.5 cm = 0.0152 cum. + Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.0464 cum. + add for wastage @ 10% = 0.005 cum. =0.0514 cum. say 51.4 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	51.40	650.00	3,341.00
2504	Kiln seasoning of timber Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm	cum	0.0514	680.00	34.95
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
2204	Carriage of timber	cum	0.0514	100.11	5.15
	LABOUR:				
0111	Carpenter 1 st class	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	0.90	273.00	245.70
0114	Beldar	day	1.05	247.00	259.35
0130	Mistry	day	0.105	301.00	31.60
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,695.21
	Add Water Charges @ 1%				56.95
	TOTAL				5,752.16
	Add CPOH @ 15%				862.82
	Cost of 2.16 sqm				6,614.98
	Cost of 1 sqm				3,062.49
	Say				3,062.50

9.134.2 30 mm thick shutters

9.134.2.1 with ISI marked M.S. pressed butt hinges bright finished of required size

9.134.2.1.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Teak wood (2nd class)				
	Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum. +				
	Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	=0.44 cum.				
	say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	720.00	3,168.00
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304)	sqm	1.41	760.00	1,071.60
	aperture 1.4 mm and 0.50 mm dia wire				
0595	Bright finished or black enameled mild steel	10 nos	6.00	80.00	48.00
	butt hinges 100x58x1.90 mm				
0597	Bright finished or black enameled mild steel	10 nos	2.00	45.00	9.00
	butt hinges 50x37x1.50 mm				
0637	Bright finished or black enameled mild steel	100 nos	48.00	50.00	24.00
	screws 40 mm				
0640	Bright finished or black enameled mild steel	100 nos	8.00	25.00	2.00
	screws 20 mm				
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,234.06
	Add Water Charges @ 1%				52.34
	TOTAL				5,286.40
	Add CPOH @ 15%				792.96
	Cost of 2.16 sqm				6,079.36
	Cost of 1 sqm				2,814.52
	Say				2,814.50

9.134.2.1.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Hollock wood				
	Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum. +				
	Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum. =0.44 cum.				
	say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	350.00	1,540.00
2204	Carriage of timber	cum	0.044	100.11	4.40
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
9999	Chemical treatment	L.S.	8.97	1.49	13.37
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,649.35
	Add Water Charges @ 1%				36.49
	TOTAL				3,685.84
	Add CPOH @ 15%				552.88
	Cost of 2.16 sqm				4,238.72
	Cost of 1 sqm				1,962.37
	Say				1,962.35

9.134.2.1.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i>				
	MATERIAL:				
	Sheesham wood				
	Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+				
	Top Rail - 1x110.5x9.5x3 cm = 0.003cum+				
	Lock and bottom rail				
	2 x 110.5x19.7x3 cm = 0.013 cum. +				
	Beadings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				
	Total = 0.040 cum. +				
	Add for wastage @ 10% = 0.004 cum.				
	=0.44 cum.				
	say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2,860.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+				
	Add wastage @ 10 % = 0.13 sqm				
	Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
0597	Bright finished or black enameled mild steel butt hinges 50x37x1.50 mm	10 nos	2.00	45.00	9.00
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				4,955.98
	Add Water Charges @ 1%				49.56
	TOTAL				5,005.54
	Add CPOH @ 15%				750.83
	Cost of 2.16 sqm				5,756.37
	Cost of 1 sqm				2,664.99
	Say				2,665.00

9.134.2.2 With ISI marked stainless steel butt hinges of required size

9.134.2.2.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Teak wood (2nd class) Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3cm = 0.0152 cum. + Beatings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1190	Second class teak wood in planks	10 cudm	44.00	720.00	3,168.00
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,415.26
	Add Water Charges @ 1%				54.15
	TOTAL				5,469.41
	Add CPOH @ 15%				820.41
	Cost of 2.16 sqm				6,289.82
	Cost of 1 sqm				2,911.95
	Say				2,911.95

9.134.2.2.2 Kiln seasoned and chemically treated hollock wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Hollock wood Styles 4 x 209 x 9.5 x 3.5 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	2 x 110.5x19.7x3 cm = 0.013 cum. + Beatings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
2505	Hollock wood in planks	10 cudm	44.00	350.00	1,540.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
9999	Chemical treatment	L.S.	8.97	1.49	13.37
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				3,830.55
	Add Water Charges @ 1%				38.31
	TOTAL				3,868.86
	Add CPOH @ 15%				580.33
	Cost of 2.16 sqm				4,449.19
	Cost of 1 sqm				2,059.81
	Say				2,059.80

9.134.2.2.3 Kiln seasoned selected class of sheesham wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for door shutters 2.00 x 1.08 m = 2.16 sqm</i> MATERIAL: Sheesham wood Styles 4 x 209 x 9.5 x 3 cm = 0.023 cum+ Top Rail - 1x110.5x9.5x3 cm = 0.003cum+ Lock and bottom rail 2 x 110.5x19.7x3 cm = 0.013 cum. + Beatings - (2x312+2x 150) x(1.2)x(1.2) cm =0.001 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Total = 0.040 cum. + Add for wastage @ 10% = 0.004 cum. =0.044 cum. say 44 cudm				
1200	Kiln seasoned selected sheesham wood planks	10 cudm	44.00	650.00	2,860.00
2504	Kiln seasoning of timber	cum	0.044	680.00	29.92
2204	Carriage of timber	cum	0.044	100.11	4.40
	Wire guage 2x160x40cm=1.28 sqm.+ Add wastage @ 10 % = 0.13 sqm Total = 1.41 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.41	760.00	1,071.60
8220	Stainless steel butt hinges (heavyweight) 100x60x2.5 mm IS : 12817 marked	10 nos	6.00	230.00	138.00
8218	Stainless steel butt hinges 50x37x1.5 mm IS : 12817 marked	10 nos	2.00	125.00	25.00
8211	Stainless steel screws 40 mm	100 nos	48.00	195.00	93.60
8214	Stainless steel screws 20 mm	100 nos	8.00	95.00	7.60
	LABOUR:				
0111	Carpenter 1 st class	day	1.20	301.00	361.20
0112	Carpenter 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.00	247.00	247.00
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries	L.S.	33.80	1.49	50.36
	TOTAL				5,137.18
	Add Water Charges @ 1%				51.37
	TOTAL				5,188.55
	Add CPOH @ 15%				778.28
	Cost of 2.16 sqm				5,966.83
	Cost of 1 sqm				2,762.42
	Say				2,762.40

9.135 Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.

9.135.1 With 2nd class teak wood beading 62X19 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i>				
	MATERIAL:				
	Wire gauge - 20x60mm mesh 3.2mm with = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	760.00	1,284.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of wire gauge L.S. 1.82 1.49 2.71 Second class teak wood beading 5mx62mmx19mm=0.0059 cum+ Add wastage @ 10% = 0.00059 cudm. Total=0.00649 cum. Say 6 cudm				
1190	Second class teak wood in planks	10 cudm	6.00	720.00	432.00
2204	Carriage of timber	cum	0.006	100.11	0.60
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,900.99
	Add Water Charges @ 1%				19.01
	TOTAL				1,920.00
	Add CPOH @ 15%				288.00
	Cost of 1.54 sqm				2,208.00
	Cost of 1 sqm				1,433.77
	Say				1,433.75

9.135.2 With 12 mm mild steel U beading

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a window of size 140x110cm = 1.54sqm.</i> MATERIAL: Wire gauge - 20x60mm mesh 3.2mm with = 1.4x1.1m = 1.54sqm.+ Add wastage @ 10% = 0.15sqm. Total=1.69 sqm				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	760.00	1,284.40
9999	Carriage of wire gauge	L.S.	1.82	1.49	2.71
7349	12 mm M.S. 'U' beading	metre	5.00	14.00	70.00
	LABOUR:				
0112	Carpenter 2nd class	day	0.33	273.00	90.09
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,538.39
	Add Water Charges @ 1%				15.38
	TOTAL				1,553.77
	Add CPOH @ 15%				233.07
	Cost of 1.54 sqm				1,786.84
	Cost of 1 sqm				1,160.29
	Say				1,160.30

- 9.136 Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3300/2750mm Door (9.10 metre length)</i>				
8738	MATERIAL: Factory made door frame fire rated (60 minutes) made with 16 SWG G.I. Sheet of section 143 mm x 57 mm duly filled with vermiculite based concrete mix	metre	9.10	978.00	8,899.80
9999	Labour	L.S.	130.00	1.49	193.70
9999	Sundries and carriage	L.S.	4.23	1.49	6.30
	TOTAL				9,099.80
	Add Water Charges @ 1%				91.00
	TOTAL				9,190.80
	Add CPOH @ 15%				1,378.62
	Cost of 9.1 metre				10,569.42
	Cost of 1 metre				1,161.47
	Say				1,161.45

- 9.137 Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-in-charge (panneling to be paid for separately).**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.50 sqm (Door size- 1710x2050 mm)</i>				
8739	MATERIAL: Fire rated door shutter made with 16 SWG G.I. sheet (60 minutes) without panel	sqm	3.50	4,850.00	16,975.00
9999	Labour	L.S.	180.00	1.49	268.20
9999	Sundries and carriage	L.S.	10.00	1.49	14.90
	TOTAL				17,258.10
	Add Water Charges @ 1%				172.58
	TOTAL				17,430.68
	Add CPOH @ 15%				2,614.60
	Cost of 3.5 sqm				20,045.28
	Cost of 1 sqm				5,727.22
	Say				5,727.20

9.138 Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I.sheet (zinc coating not less than 120 gm/m²), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge.

9.138.1 With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6.36 sqm (Door size 3300/2750mm) (Glazing area)</i>				
	MATERIAL:				
	Glazing area-2x0.70x2.05=2.87 m ²				
	1x1.70x0.60=1.02 m ²				
	2x0.69x1.79=2.47 m ²				
	Total =6.36 m ²				
8741	Clear fire resistant glass panes 6mm thick (60 minutes)	sqm	6.36	19,800.00	1,25,928.00
	G.I.'U' beading-2x2x0.70=2.80 m				
	2x2x2.05=8.20 m				
	2x1x1.70=3.40 m				
	2x1x0.60=1.20 m				
	2x2x0.69 =2.76 m				
	2x2x1.79=7.16 m				
	Total=25.52 m				
8742	G.I. U beading of 16 SWG G.I. sheet (zinc coating >120gm/ m ²) with ceramic tape of suitable thickness and fire resistant primer coating	metre	25.52	247.00	6,303.44
8740	Fire seal Putty	kg	3.00	675.00	2,025.00
8743	Matrix Mineral Board	metre	76.56	61.85	4,735.24
	3x25.52m=76.56 meter				
9999	Labour	L.S.	180.00	1.49	268.20
9999	Sundries and carriage	L.S.	10.00	1.49	14.90
	TOTAL				1,39,274.78
	Add Water Charges @ 1%				1,392.75
	TOTAL				1,40,667.53
	Add CPOH @ 15%				21,100.13
	Cost of 6.36 sqm				1,61,767.66
	Cost of 1 sqm				25,435.17
	Say				25,435.15

9.139 Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 No.</i>				
	MATERIAL:				
8744	Panic Bar / latch (Double point)	each	1.00	5,000.00	5,000.00
	Labour for fixing				
0111	Carpenter 1 st class	day	0.17	301.00	51.17

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries (screws and carriage)	L.S.	3.64	1.49	5.42
	TOTAL				5,056.59
	Add Water Charges @ 1%				50.57
	TOTAL				5,107.16
	Add CPOH @ 15%				766.07
	Cost of 1 Nos				5,873.23
	Say				5,873.25

9.140 Providing and fixing plain lining with necessary screws/nuts & bolts/nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).

9.140.1 12 mm thick commercial ply conforming to IS : 1328 BWR type

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2413	12 mm commercial ply	sqm	11.00	580.00	6,380.00
	Priming coat				
13.50.1	Rate as per Item Number 13.50.1 of SH:	sqm	10.00	25.85	258.50 (A)
	Finishing				
9999	Sundries and screws etc.	L.S.	40.10	1.49	59.75
	LABOUR:				
0156	Carpenter (average)	day	1.28	287.00	367.36
0114	Beldar	day	1.43	247.00	353.21
9999	Sundries and carriage	L.S.	33.56	1.49	50.00
	TOTAL				7,468.82
	Add Water Charges @ 1% except on A i.e on (7,468.82 - 258.50 =) 7,210.32				72.10
	TOTAL				7,540.92
	Add CPOH @ 15% except on A i.e on (7,540.92 - 258.50 =) 7,282.42				1,092.36
	Cost of 10 sqm				8,633.28
	Cost of 1 sqm				863.33
	Say				863.35

9.141 Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door frame of 5 metre</i>				
	MATERIAL:				
8014	Factory made door frame of size 50x47 mm with wall thickness 5 mm made of single piece extruded profile	metre	5.00	450.00	2,250.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR:				
	Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	11.65	1.49	17.36
	TOTAL				2,347.46
	Add Water Charges @ 1%				23.47
	TOTAL				2,370.93
	Add CPOH @ 15%				355.64
	Cost of 5 metre				2,726.57
	Cost of 1 metre				545.31
	Say				545.30

9.142 35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.

9.142.1 Non decorative finish (matt finish)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter 2.20x1.08m =2.38 sqm</i>				
8735	MATERIAL: 35 mm thick factory made solid panel PVC door shutter of single piece extruded profile non decorative finished (Matt finished)	sqm	2.38	2,088.00	4,969.44
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	30.35	1.49	45.22
	TOTAL				5,285.86
	Add Water Charges @ 1%				52.86
	TOTAL				5,338.72
	Add CPOH @ 15%				800.81
	Cost of 2.38 sqm				6,139.53
	Cost of 1 sqm				2,579.63
	Say				2,579.65

9.142.2 Decorative finish (wood grained finish)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one shutter</i> <i>2.20x1.08m=2.38 sqm</i>				
8736	MATERIAL: 35 mm thick factory made solid panel PVC door shutter of single piece extruded profile decorative finished (wood grain finished)	sqm	2.38	2,536.00	6,035.68
8100	Powder coated M.S. butt hinges 100 mm X58 mmX1.9 mm	10 Nos	4.00	79.00	31.60
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	48.00	50.00	24.00
0640	Bright finished or black enameled mild steel screws 20 mm	100 nos	8.00	25.00	2.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	30.35	1.49	45.22
	TOTAL				6,352.10
	Add Water Charges @ 1%				63.52
	TOTAL				6,415.62
	Add CPOH @ 15%				962.34
	Cost of 2.38 sqm				7,377.96
	Cost of 1 sqm				3,099.98
	Say				3,100.00

9.143 Providing and Fixing factory made uPVC door frame, made of uPVC extruded sections, of size 65 mm x 55 mm with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be mitred cut and jointed with plastic brackets and stainless steel screws, reinforcing hinge side vertical of the frames with PVC profile of Size 28 mm x 30 mm having wall thickness 2 mm (±0.2 mm), including providing & fixing 3 nos of 125 mm long stainless steel hinges to the frame, fixing the frame with jamb with required number & size of anchor dash fastners, all complete as per manufacturer's specification and direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
8745	MATERIAL: 65 mm x 55 mm x 2 mm thick Factory made door frame of PVC extruded section in white, grey or wooden finish	metre	5.00	318.00	1,590.00
	LABOUR:				
0156	Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	4.68	1.49	6.97
	TOTAL				1,677.07
	Add Water Charges @ 1%				16.77
	TOTAL				1,693.84
	Add CPOH @ 15%				254.08
	Cost of 5 metre				1,947.92
	Cost of 1 metre				389.58
	Say				389.60

- 9.144 Providing and fixing 37 mm thick factory made PVC door shutter, styles and rails made of PVC hollow section of size 100 mm x 37 mm with wall thickness 2 mm (± 0.2 mm), with inbuilt bead on one side, styles and rails mitered cut and joint at the corners by means of 2 nos of plastic brackets of size 75 mm x 220 mm at each corner and stainless steel screws, reinforcing the hinge side of style by inserting PVC profile of size 28 mm x 30 mm, with wall thickness 2 mm (± 0.2 mm). Lockrail of size 100 mm x 37 mm, wall thickness 2 mm (± 0.2 mm) will be fixed to the vertical styles. Providing with PVC snapfit beads and panel of size 100 mm x 20 mm, and inserting 2 nos tie bar of 6 mm dia and fastening with nuts and washers complete, all as per manufacturer's specification and direction of Engineer-in-charge.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8746	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i> MATERIAL: 37 mm thick Factory made shutter with style,rails and panels of PVC extruded section in white or grey finish i/c carriage	sqm	2.38	2,225.00	5,295.50
0156	LABOUR: Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,539.44
	Add Water Charges @ 1%				55.39
	TOTAL				5,594.83
	Add CPOH @ 15%				839.22
	Cost of 2.38 sqm				6,434.05
	Cost of 1 sqm				2,703.38
	Say				2,703.40

- 9.145 Providing and Fixing factory made PVC door frame made of PVC extruded sections of size 75 mm x 53 mm, having wall thickness 2.0 mm (± 0.2 mm). Both verticals sides of the frame reinforced with PVC profile of cross section size 28 mm x 30 mm x 2 mm thickness (± 0.2 mm) and 75 mm x 200 mm long, including reinforcing both ends of the top frame with PVC profile. PVC Door Frame and PVC reinforcement profile to be mitred cut jointed and fusion welded together, including providing and fixing 3 nos of 125 mm long stainless steel hinges to frame, fixing the frame with jamb with required nos & sizes of anchor dash fastener, all complete as per manufacturer's specification and direction of engineer-in-charge.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8747	<i>Details of cost for 5 metre</i> MATERIAL: 75 mm x 53 mm x 2.0 mm thick Factory made door frame of PVC extruded section in white,grey or wooden finish	metre	5.00	327.00	1,635.00
0156	LABOUR: Carpenter (average)	day	0.15	287.00	43.05
0114	Beldar	day	0.15	247.00	37.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	4.68	1.49	6.97
	TOTAL				1,722.07
	Add Water Charges @ 1%				17.22
	TOTAL				1,739.29
	Add CPOH @ 15%				260.89
	Cost of 5 metre				2,000.18
	Cost of 1 metre				400.04
	Say				400.05

9.146 Providing and fixing 37 mm thick factory made PVC Door shutter, styles and rails made of PVC hollow extruded printed and laminated section having overall dimension 115 mm x 37 mm with wall thickness 2 mm (± 0.2 mm) with inbuilt beading on one side, the styles and rails mitred cut and joint at corners by inserting 2 nos PVC profile reinforcement of size 75 mm x 200 mm long with cross section size of 28 mm x 30 mm having wall thickness 2 mm (± 0.2 mm). Styles, rails and reinforcements to be fusion welded together. Only hinge side vertical style to be reinforced with PVC profile reinforcement in full length. Printed and laminated PVC lock rail of size 110 mm x 37 mm having wall thickness 2 mm (± 0.2 mm) to be welded horizontally with the vertical styles after inserting PVC profile reinforcement as in styles and rails, providing with PVC snap fit beading, panels of 100 x 20 mm printed & laminated and inserting 2 nos 6 mm dia bright steel rod horizontally with both side threaded and tightened with check nuts and washers complete, all as per manufacturer's specification and direction of engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8748	<i>Details of cost for one door shutter</i> <i>2.20x1.08m = 2.38 sqm</i> MATERIAL: 37 mm thick Factory made fusion welded shutter with style,rails and panels of PVC extruded section in wooden finish	sqm	2.38	2,300.00	5,474.00
	LABOUR:				
0156	Carpenter (average)	day	0.40	287.00	114.80
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	20.36	1.49	30.34
	TOTAL				5,717.94
	Add Water Charges @ 1%				57.18
	TOTAL				5,775.12
	Add CPOH @ 15%				866.27
	Cost of 2.38 sqm				6,641.39
	Cost of 1 sqm				2,790.50
	Say				2,790.50

9.147 Providing and Fixing factory made uPVC white colour casement/sliding window/ door, made of extruded profiles. Profiles of frames and sash will be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware and drainage of water etc., making arrangement for fixing of hardware, EPDM gasket, 1.2 \pm 0.2 mm thick galvanised steel profile to be inserted in required profile, frame will be fixed to the wall with 8 mm x 100 mm long fasteners, all complete as

per direction of Engineer-in-charge (Glazing, hardware hinges and fitting etc. to be paid separately). Note:- Each member of window to be measured separately with clear length.

9.147.1 Casement Window (Outward/Inward opening) with hinge System

9.147.1.1 Frame (50 mm x 50 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8760	uPVC extruded profile casement window Frame (50 mm x 50 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	158.00	165.90
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR:				
	for fabrication				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.49	14.90
	TOTAL				321.80
	Add Water Charges @ 1%				3.22
	TOTAL				325.02
	Add CPOH @ 15%				48.75
	Cost of 1 metre				373.77
	Say				373.75

9.147.1.2 Sash (Style and Rail) (62 mm x 34 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
	MATERIAL:				
8761	uPVC extruded profile casement window sash (Style and Rail) (62 mm x 34 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	145.00	152.25
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR: for fabrication	metre	1.05	25.00	26.25
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.49	14.90
	TOTAL				308.15
	Add Water Charges @ 1%				3.08
	TOTAL				311.23
	Add CPOH @ 15%				46.68
	Cost of 1 metre				357.91
	Say				357.90

9.147.1.3 Mullion (intermediate Section) (66 mm x 50 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8762	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window mullion (intermediate section) (66 mm x 50 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	175.00	183.75
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR: for fabrication	metre	1.05	25.00	26.25
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.49	14.90
	TOTAL				339.65
	Add Water Charges @ 1%				3.40
	TOTAL				343.05
	Add CPOH @ 15%				51.46
	Cost of 1 metre				394.51
	Say				394.50

9.147.1.4 'T' Profile (one vertical length in between two shutters) (24 mm x 34.5 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8763	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window 'T' profile (one vertical length in between two shutters) (24 mm x 34.5 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR: for fabrication	metre	1.05	46.00	48.30
0111	Carpenter 1 st class	day	0.02	301.00	6.02
0114	Beldar	day	0.02	247.00	4.94
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				71.18
	Add Water Charges @ 1%				0.71
	TOTAL				71.89
	Add CPOH @ 15%				10.78
	Cost of 1 metre				82.67
	Say				82.65

9.147.1.5 Glazing bead (12 mm x 18 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8764	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window glazing bead (12 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	46.00	48.30
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	301.00	6.02
0114	Beldar	day	0.02	247.00	4.94
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				97.43
	Add Water Charges @ 1%				0.97
	TOTAL				98.40
	Add CPOH @ 15%				14.76
	Cost of 1 metre				113.16
	Say				113.15

9.147.2 Casement Window (With friction hinge & outward opening)**9.147.2.1 Casement Frame (67 mm x 62 mm)**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
8765	MATERIAL: uPVC extruded profile casement window Frame (67 mm x 62 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	225.00	236.25
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.49	14.90
	TOTAL				365.90
	Add Water Charges @ 1%				3.66
	TOTAL				369.56
	Add CPOH @ 15%				55.43
	Cost of 1 metre				424.99
	Say				425.00

9.147.2.2 Casement Window Sash/Mullion (67mm x 75mm) (style, rail and intermediate section)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
8766	MATERIAL: uPVC extruded profile casement Window Sash/Mullion (67 mm x 75 mm)(Style,rail and intermediate section) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	250.00	262.50
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	10.00	1.49	14.90
	TOTAL				392.15
	Add Water Charges @ 1%				3.92
	TOTAL				396.07
	Add CPOH @ 15%				59.41
	Cost of 1 metre				455.48
	Say				455.50

9.147.2.3 Casement Glazing bead (35 mm x 18 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8767	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	78.00	81.90
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	301.00	6.02
0114	Beldar	day	0.02	247.00	4.94
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				131.03
	Add Water Charges @ 1%				1.31
	TOTAL				132.34
	Add CPOH @ 15%				19.85
	Cost of 1 metre				152.19
	Say				152.20

9.147.3 Sliding Window (Two Track, 2/4 Shutters)

9.147.3.1 Two Track Sliding Frame (67 mm x 52 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8768	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	235.00	246.75

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8772	Aluminium Track on bottom rail for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre LABOUR: for fabrication	metre	2.10	20.00	42.00
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.49	22.35
	TOTAL				425.85
	Add Water Charges @ 1%				4.26
	TOTAL				430.11
	Add CPOH @ 15%				64.52
	Cost of 1 metre				494.63
	Say				494.65

9.147.3.2 Sliding window Sash (60 mm x 44 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
8769	MATERIAL: uPVC extruded profile Sliding window Sash (60 mm x 44 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	212.00	222.60
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre LABOUR: for fabrication	metre	2.10	15.00	31.50
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.49	22.35
	TOTAL				391.20
	Add Water Charges @ 1%				3.91
	TOTAL				395.11
	Add CPOH @ 15%				59.27
	Cost of 1 metre				454.38
	Say				454.40

9.147.3.3 Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8770	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	45.00	47.25
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	15.00	15.75
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.05	301.00	15.05
0114	Beldar	day	0.05	247.00	12.35
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				102.32
	Add Water Charges @ 1%				1.02
	TOTAL				103.34
	Add CPOH @ 15%				15.50
	Cost of 1 metre				118.84
	Say				118.85

9.147.3.4 Sliding Glazing bead (35 mm x 18 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8767	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	78.00	81.90

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre LABOUR: for fabrication	metre	1.05	25.00	26.25
0111	Carpenter 1 st class	day	0.02	301.00	6.02
0114	Beldar	day	0.02	247.00	4.94
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				131.03
	Add Water Charges @ 1%				1.31
	TOTAL				132.34
	Add CPOH @ 15%				19.85
	Cost of 1 metre				152.19
	Say				152.20

9.147.4 Sliding Door (Two Track, 2/4 Shutters)

9.147.4.1 Two Track Sliding Frame (67 mm x 52 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i> MATERIAL:				
8768	uPVC extruded profile Two Track Sliding frame (67 mm x 52 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	235.00	246.75
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8772	Aluminium Track on bottom rail for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	20.00	21.00
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.10	301.00	30.10
0114	Beldar	day	0.10	247.00	24.70
9999	Sundries and carriage of materials	L.S.	10.00	1.49	14.90
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.49	22.35
	TOTAL				412.30
	Add Water Charges @ 1%				4.12
	TOTAL				416.42
	Add CPOH @ 15%				62.46
	Cost of 1 metre				478.88
	Say				478.90

9.147.4.2 Sliding Door Sash (80 mm x 44 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
8771	MATERIAL: uPVC extruded profile Sliding Door Sash (80 mm x 44 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	275.00	288.75
8775	Steel Galvanised tubular reinforcement for uPVC door/ window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	50.00	52.50
8773	Wool Pine for uPVC window Qty = 2.00 + Add wastage @ 5% = 0.1 = 2.10 metre	metre	2.10	15.00	31.50
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.14	301.00	42.14
0114	Beldar	day	0.14	247.00	34.58
9999	Sundries and carriage of materials	L.S.	5.00	1.49	7.45
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	15.00	1.49	22.35
	TOTAL				505.52
	Add Water Charges @ 1%				5.06
	TOTAL				510.58
	Add CPOH @ 15%				76.59
	Cost of 1 metre				587.17
	Say				587.15

9.147.4.3 Sliding Interlock for Door (one vertical length in each shutter) (45.5 mm x 28 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre</i>				
8770	MATERIAL: uPVC extruded profile Sliding Interlock for Window (one vertical length in each shutter) (45.5 mm x 28 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	45.00	47.25
8773	Wool Pine for uPVC window Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	15.00	15.75
	LABOUR: for fabrication				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	Carpenter 1 st class	day	0.05	301.00	15.05
0114	Beldar	day	0.05	247.00	12.35
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				102.32
	Add Water Charges @ 1%				1.02
	TOTAL				103.34
	Add CPOH @ 15%				15.50
	Cost of 1 metre				118.84
	Say				118.85

9.147.4.4 Sliding Glazing bead (35 mm x 18 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8767	<i>Details of cost for 1 metre</i> MATERIAL: uPVC extruded profile casement window glazing bead (35 mm x 18 mm) Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	78.00	81.90
7390	Neoprene/EPDM rubber gasket Qty = 1.00 + Add wastage @ 5% = 0.05 = 1.05 metre	metre	1.05	25.00	26.25
	LABOUR: for fabrication				
0111	Carpenter 1 st class	day	0.02	301.00	6.02
0114	Beldar	day	0.02	247.00	4.94
9999	Sundries and carriage of materials	L.S.	3.00	1.49	4.47
9999	Labour for installation, drilling holes, hire charges of drill, electricity charges, cost of fasteners and sundries	L.S.	5.00	1.49	7.45
	TOTAL				131.03
	Add Water Charges @ 1%				1.31
	TOTAL				132.34
	Add CPOH @ 15%				19.85
	Cost of 1 metre				152.19
	Say				152.20

9.148 Providing and fixing stainless steel (SS-304 grade) friction hinges to the side/top hung uPVC windows, of approved quality, with necessary stainless steel screws etc. as per direction of Engineer-in-charge.

9.148.1 200 x 19 x 1.9 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8755	<i>Details of cost for 10 Nos</i> MATERIAL: Stainless steel friction hinge of size 200 mm x 19 x 1.9 mm for uPVC windows	each	10.00	225.00	2,250.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.49	4.07
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				2,338.47
	Add Water Charges @ 1%				23.38
	TOTAL				2,361.85
	Add CPOH @ 15%				354.28
	Cost of 10 nos				2,716.13
	Cost of each				271.61
	Say				271.60

9.148.2 250 x 19 x 1.9 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8756	Stainless steel friction hinge of size 250 mm x 19 x 1.9 mm for uPVC windows	each	10.00	275.00	2,750.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.49	4.07
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				2,838.47
	Add Water Charges @ 1%				28.38
	TOTAL				2,866.85
	Add CPOH @ 15%				430.03
	Cost of 10 nos				3,296.88
	Cost of each				329.69
	Say				329.70

9.148.3 300 x 19 x 1.9 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8757	Stainless steel friction hinge of size 300 mm x 19 x 1.9 mm for uPVC windows	each	10.00	350.00	3,500.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.49	4.07
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				3,588.47
	Add Water Charges @ 1%				35.88
	TOTAL				3,624.35
	Add CPOH @ 15%				543.65
	Cost of 10 nos				4,168.00
	Cost of each				416.80
	Say				416.80

9.148.4 350 x 19 x 1.9 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8758	Stainless steel friction hinge of size 350 mm x 19 x 1.9 mm for uPVC windows	each	10.00	400.00	4,000.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.49	4.07
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				4,088.47
	Add Water Charges @ 1%				40.88
	TOTAL				4,129.35
	Add CPOH @ 15%				619.40
	Cost of 10 nos				4,748.75
	Cost of each				474.88
	Say				474.90

9.148.5 400 x 19 x 1.9 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8759	Stainless steel friction hinge of size 400 mm x 19 x 1.9 mm for uPVC windows	each	10.00	500.00	5,000.00
8647	Stainless steel screws 30 mm x4 mm	100 Nos	40.00	29.00	11.60
9999	Carriage	L.S.	2.73	1.49	4.07
0112	Carpenter 2nd class	day	0.14	273.00	38.22
0114	Beldar	day	0.14	247.00	34.58
	TOTAL				5,088.47
	Add Water Charges @ 1%				50.88
	TOTAL				5,139.35
	Add CPOH @ 15%				770.90
	Cost of 10 nos				5,910.25
	Cost of each				591.03
	Say				591.00

9.149 Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8750	Zinc alloy (white powder coated) casement handle for uPVC windows	each	10.00	150.00	1,500.00
9999	Carriage	L.S.	4.42	1.49	6.59
9999	Sundries (Screws)	L.S.	3.00	1.49	4.47

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0156	LABOUR: Carpenter (average)	day	0.125	287.00	35.88
	TOTAL				1,546.94
	Add Water Charges @ 1%				15.47
	TOTAL				1,562.41
	Add CPOH @ 15%				234.36
	Cost of 10 nos				1,796.77
	Cost of each				179.68
	Say				179.70

9.150 Providing and fixing zinc alloyed (white powder coated) touch lock for uPVC sliding window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
8751	MATERIAL: Zinc alloy (white powder coated) Touch Lock for uPVC windows	each	10.00	100.00	1,000.00
9999	Carriage	L.S.	4.42	1.49	6.59
9999	Sundries (Screws)	L.S.	3.00	1.49	4.47
0156	LABOUR: Carpenter (average)	day	0.125	287.00	35.88
	TOTAL				1,046.94
	Add Water Charges @ 1%				10.47
	TOTAL				1,057.41
	Add CPOH @ 15%				158.61
	Cost of 10 nos				1,216.02
	Cost of each				121.60
	Say				121.60

9.151 Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
8752	MATERIAL: Zinc alloy rollers for uPVC windows	each	10.00	50.00	500.00
9999	Carriage	L.S.	4.42	1.49	6.59
9999	Sundries (Screws)	L.S.	3.00	1.49	4.47
0156	LABOUR: Carpenter (average)	day	0.125	287.00	35.88
	TOTAL				546.94
	Add Water Charges @ 1%				5.47
	TOTAL				552.41
	Add CPOH @ 15%				82.86
	Cost of 10 nos				635.27
	Cost of each				63.53
	Say				63.55

9.152 Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8753	Zinc alloy rollers for uPVC door	each	10.00	80.00	800.00
9999	Carriage	L.S.	4.42	1.49	6.59
9999	Sundries (Screws)	L.S.	3.00	1.49	4.47
	LABOUR:				
0156	Carpenter (average)	day	0.125	287.00	35.88
	TOTAL				846.94
	Add Water Charges @ 1%				8.47
	TOTAL				855.41
	Add CPOH @ 15%				128.31
	Cost of 10 nos				983.72
	Cost of each				98.37
	Say				98.35

9.153 Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
8754	Zinc alloy (white powder coated) casement lock for uPVC windows	each	10.00	100.00	1,000.00
9999	Carriage	L.S.	4.42	1.49	6.59
9999	Sundries (Screws)	L.S.	3.00	1.49	4.47
	LABOUR:				
0156	Carpenter (average)	day	0.125	287.00	35.88
	TOTAL				1,046.94
	Add Water Charges @ 1%				10.47
	TOTAL				1,057.41
	Add CPOH @ 15%				158.61
	Cost of 10 nos				1,216.02
	Cost of each				121.60
	Say				121.60

9.154 Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.4x2.4 m panel=5.76m² or 58.35 Kg</i>				
	MATERIAL:				
	M.S.Pipe section @ 10.13 kg/sqm=58.35 Kg+				
	Add 5% wastage = 2.92 Kg				
	Total = 61.27 Kg				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4009	Mild steel tubes hot finished welded type	kilogram	61.27	48.00	2,940.96
8776	Stainless steel dash fastener of 8 mm dia and 75 mm long bolt	each	20.00	20.00	400.00
	Steel primer				
	5 x 2 x 2.40 x 0.05 x 4 = 4.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH:	sqm	4.80	20.70	99.36 (A)
	Finishing				
	LABOUR:				
0116	Fitter (grade 1)	day	0.40	301.00	120.40
0103	Blacksmith 2nd class	day	0.53	273.00	144.69
0114	Beldar	day	1.23	247.00	303.81
0100	Bandhani	day	0.06	260.00	15.60
9999	Sundries	L.S.	33.56	1.49	50.00
	TOTAL				4,074.82
	Add Water Charges @ 1% except on A i.e on (4,074.82 - 99.36 =) 3,975.46				39.75
	TOTAL				4,114.57
	Add CPOH @ 15% except on A i.e on (4,114.57 - 99.36 =) 4,015.21				602.28
	Cost of 58.35 kg				4,716.85
	Cost of 1 kg				80.84
	Say				80.85

SUB HEAD : 10.0
STEEL WORK

10.1 Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one quintal</i>				
	MATERIAL:				
	Steel = 1.00q				
	Add wastage @ 5% = 0.05q				
	Total = 1.05q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.05	4,250.00	4,462.50
2205	Carriage of steel	tonne	0.105	77.87	8.18
	LABOUR:				
0116	Fitter (grade 1)	day	0.50	301.00	150.50
0103	Blacksmith 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	1.00	247.00	247.00
	Priming coat				
13.50.3	Rate as per Item Number 13.50.3 of SH:	sqm	3.00	20.70	62.10 (A)
9999	Finishing				
9999	Sundries	L.S.	20.67	1.49	30.80
	TOTAL				5,165.83
	Add Water Charges @ 1% except on A i.e on (5,165.83 - 62.10 =) 5,103.73				51.04
	TOTAL				5,216.87
	Add CPOH @ 15% except on A i.e on (5,216.87 - 62.10 =) 5,154.77				773.22
	Cost of 100 kg				5,990.09
	Cost of 1 kg				59.90
	Say				59.90

10.2 Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss 7.6m clear span (weight = 3.95 quintal)</i>				
	MATERIAL:				
	(i) Principal rafter (T-iron):				
	100x 100x 10mm @ 15kg/m = 142.50kg+				
	Struts (angles)40x40x6mm:				
	2x1.35=2.70m @ 3.5kg/m = 9.45kg				
	Total = 151.95kg+				
	Add wastage @ 5% = 7.60kg				
	Total = 159.55kg. = 1.60q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1.60	4,250.00	6,800.00
	(ii) Ties (flats) 50x12mm:				
	2x2.7 = 5.4m @4.7kg/m = 25.38kg+				
	Ties central (flats):				
	50x10mm 1x2.80 = 2.8m @3.90kg/m = 10.92kg.+				
	Braces (flats)40x 10mm:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1009	<p>2x1.84 = 3.68m @3.9kg/m = 14.35kg. Total = 50.65kg+ Add wastage @ 5% = 2.53kg. Total = 53.18kg. =0.53 qtl Flats exceeding 10 mm in thickness (iii) Gusset plates 10mm thick: 1x0.74x0.35m = 0.259sqm.+ shoe 4x0.46x0.46 = 0.845sqm. Total = 1.104 sqm. 1.104sqm.@ 78.4kg/m = 86.55kg. 12mm plates at the point of principal rafter and strut: 2x0.3x0.2 = 0.12sqm.+ Tie beam, brace and strut: 2x0.5x0.3 = 0.30sqm.+ Sole plates: 2x0.46x0.46 = 0.42sqm.+ Anchor plate: 2x0.46x0.1 =0.09sqm. Total = 0.93 sqm. Say 1.00 sqm. 1.00 sqm. @ 94.4kg/m = 94.40kg. Total = 180.95kg. Add wastage @ 5% = 9.05kg. Total = 190.00kg or 1.90q</p>	quintal	0.53	4,150.00	2,199.50
1010	<p>Mild steel plates (iv) 16mm dia. 50mm long rivets = 56 Nos.+ Add wastage @ 5 % = 2.8 Nos. Total = 58.8 Nos</p>	quintal	1.90	4,500.00	8,550.00
	<p>1020 Mild steel rivets (v) 20mm dia. holding down bolts 4 Nos.x460mm = 1840mm + Add wastage @ 5% = 92mm Total = 1932 mm</p>	quintal	0.0684	4,800.00	328.32
1221	20 mm dia holding down bolts	quintal	0.0529	5,400.00	285.66
2205	<p>Carriage of steel (0.160+0.053+0.091 +0.099+0.007+0.005) =0.415 tonne LABOUR:</p>	tonne	0.415	77.87	32.32
0116	Fitter (grade 1)	day	2.70	301.00	812.70
0103	Blacksmith 2nd class	day	3.60	273.00	982.80
0139	Skilled Beldar (for floor rubbing etc.)	day	5.40	260.00	1,404.00
0114	Beldar	day	3.60	247.00	889.20
0100	Bandhani	day	0.44	260.00	114.40
	<p>Applying priming coat: T Iron 9.5x0.4 = 3.80sqm.+ Struts 2.70x0.16 = 0.43sqm.+ Ties 5.4x0.124 = 0.67sqm.+ Braces 2x 1.84x0.12 = 0.44 sqm.+ Ties 2.8x0.12 = 0.34 sqm. Total = 5.68 sqm</p>				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	5.68	20.70	117.58 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				22,636.77
	Add Water Charges @ 1% except on A i.e on (22,636.77 - 117.58 =) 22,519.19				225.19
	TOTAL				22,861.96
	Add CPOH @ 15% except on A i.e on (22,861.96 - 117.58 =) 22,744.38				3,411.66
	Cost of 395 kg				26,273.62
	Cost of 1 kg				66.52
	Say				66.50

10.3 Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a gate 2.4mx1.5m = 3.6 sqm.</i>				
	MATERIAL:				
	M.S. channels 18 Nos. on both sides				
	20x10x2mm @ 0.56kg/m				
	2x18x2.4 = 86.40m+				
	Add wastage @ 10% = 8.64m				
	Total = 95.04m				
	95.04m@0.56kg/m =53.22kg=0.53q				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.53	4,250.00	2,252.50
	M.S. Tee-40x40x6mm				
	for bottom-1.5 70m+				
	for top = 1.725m				
	=3.295m Say 3.3m				
	3.3m @ 3.5kg/m = 11.55kg+				
	Add wastage @ 10% = 1.155 kg.				
	Total = 12.705kg. Say 0.13 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.13	4,250.00	552.50
	20mmx5mm flat iron diagonals 4 Nos.				
	4x32x0.5334 = 68.275m				
	68.275m @ 0.8kg/m = 54.62kg+				
	Add wastage @ 10% = 5.46kg				
	Total = 60.08kg = 0.60 qtl				
1008	Flats up to 10 mm in thickness	quintal	0.60	4,200.00	2,520.00
2205	Carriage of steel	tonne	0.126	77.87	9.81
	(0.053+0.013+0.060=0.126 tonne)				
9999	Cost of rivets fixing hooks and washers	L.S.	269.10	1.49	400.96
9999	Cost of locking arrangements and handles.	L.S.	67.34	1.49	100.34
4013	Pulley 40 mm dia	each	10.00	25.00	250.00
	Priming coat-				
	Channel - 36x0.076x2.4 = 6.57sqm.+				
	Tee-0.16x3.3=0.53sqm.+				
	Flats-0.05x68 = 3.40sqm.				
	Total = 10.50sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	10.50	20.70	217.35 (A)
0116	Fitter (grade 1)	day	3.00	301.00	903.00
0102	Blacksmith 1 st class	day	6.00	301.00	1,806.00
0103	Blacksmith 2nd class	day	6.00	273.00	1,638.00
0123	Mason (brick layer) 1 st class	day	0.50	301.00	150.50
0124	Mason (brick layer) 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	8.00	247.00	1,976.00
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				13,154.04
	Add Water Charges @ 1% except on A i.e on (13,154.04 - 217.35 =) 12,936.69				129.37
	TOTAL				13,283.41
	Add CPOH @ 15% except on A i.e on (13,283.41 - 217.35 =) 13,066.06				1,959.91
	Cost of 3.6 sqm				15,243.32
	Cost of 1 sqm				4,234.26
	Say				4,234.25

10.4 Providing and fixing 1 mm thick M.S. sheet sliding-shutters, with frame and diagonal braces of 40x40x6 mm angle iron, 3 mm M.S. gusset plates at the junction and corners, 25 mm dia pulley, 40x40x6 mm angle and T-iron guide at the top and bottom respectively, including applying a priming coat of approved steel primer.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1013	<i>Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.</i> MATERIAL: (i) M.S. sheet 1mm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q Mild steel sheets for tanks	quintal	0.497	4,600.00	2,286.20
1010	(ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+ 1/2x0.26(0.04+0.3) = 0.0442 = 0.0562sqm.+ 8x0.0562 = 0.4496sqm.+ 2x22/7x1/4x0.3x0.3=0.1414sqm. = 0.5910sqm. 0.5910sqm.@23.55kg/sqm.= 13.92kg.+ Add wastage @ 10% = 1.39kg Total = 15.31kg. or 0.153q Mild steel plates	quintal	0.153	4,500.00	688.50
	(iii) Angle iron 40x40x6mm @ 3.5kg/m Sides-4x2.4=9.6m+ Bottom & top 4xi.2 = 4.8m+ Diagonals-2x2.5=5.0m+ 2x2.45 = 4.9m+ Top and bottom guides 2x4.8 = 9.6m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	Top guide supports 7x0.8 = 2.1m = 36.0m 36m @3.5kg. per m. = 126kg.+ Add wastage@ 10%= 12.6kg. Total = 138.6kg. or 1.39q Structural steel such as tees, angles channels and R.S. joists (iv)Channel 25x25x6mm @ 3.05kg/m Bottom-2.4m : 2.4x3.05 Channel 40x40x6mm @ 5.56kg/m 0.5x5.56 = 2.78kg. = 10.1kg.+ Add wastage @ 10% = 1.101 kg. Total = 11.11kg. or 0.11q	quintal	1.39	4,250.00	5,907.50
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.11	4,250.00	467.50
2205	Carriage of steel (0.0497+0.015+0.139+0.11 =0.2157 tonne)	tonne	0.216	77.87	16.82
9999	Pully guide blocks including drilling holes	L.S.	269.10	1.49	400.96
0969	Pulley 25 mm dia	each	8.00	30.00	240.00
9999	Handles and locking arrangements	L.S.	167.75	1.49	249.95
9999	Bolts and rivets	L.S.	269.10	1.49	400.96
9999	Cement concrete	L.S.	13.52	1.49	20.14
	Priming coat- M.S. Sheet 2x5.76 = 11.52+ Angle iron 0.16x36 = 5.76+ Channel-0.15x2.4=0.36+ 0.24x0.5=0.12 Total = 17.76 Say 18.0sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	18.00	20.70	372.60 (A)
0116	Fitter (grade 1)	day	2.00	301.00	602.00
0102	Blacksmith 1 st class	day	3.00	301.00	903.00
0103	Blacksmith 2nd class	day	4.00	273.00	1,092.00
0114	Beldar	day	4.00	247.00	988.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				14,911.15
	Add Water Charges @ 1% except on A i.e on (14,911.15 - 372.60 =) 14,538.55				145.39
	TOTAL				15,056.54
	Add CPOH @ 15% except on A i.e on (15,056.54 - 372.60 =) 14,683.94				2,202.59
	Cost of 5.76 sqm				17,259.13
	Cost of 1 sqm				2,996.38
	Say				2,996.40

10.5 Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.

10.5.1 Using M.S. angels 40x40x6 mm for diagonal braces

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.</i>				
	MATERIAL:				
	(i) M.S. sheet 1mm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg.+ Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q	quintal	0.497	4,600.00	2,286.20
1013	Mild steel sheets for tanks				
	(ii) Gusset plates 3.00mm thick Area of one gusset plates 0.3x0.04 = 0.0120+ 1/2x0.26(0.04+0.3) = 0.0442 = 0.0562sqm.+ 8x0.0562 = 0.4496sqm.+ 2x22/7x1/4x0.3x0.3=0.1414sqm. = 0.5910sqm. 0.5910sqm.@23.55kg/sqm.= 13.92kg.+ Add wastage @ 10% = 1.39kg Total = 15.31kg. or 0.153q	quintal	0.153	4,600.00	703.80
1013	Mild steel sheets for tanks				
	(iii) Angle iron:40x40x6mm @3.5kg/m Sides-4x2.40 = 9.6m+ Top & bottom-4x1.20=4.8m+ Diagonals-2x2.5=5.0m+ 2x2.45 = 4.9m+ = 24.30m+ Add wastage @ 10% = 2.43m Total =26.73m 26.73m @ 3.5kg. per m. = 93.56kg=0.936q	quintal	0.936	4,250.00	3,978.00
1007	Structural steel such as tees, angles channels and R.S. joists				
2205	Carriage of steel (0.0497+0.0153+0.0936 tonne) = 0.1586 t	tonne	0.1586	77.87	12.35
1036	Iron pintels including welded pin	each	4.00	35.00	140.00
1222	Mild steel sheets with bolts and nuts to rest on pintels	each	4.00	110.00	440.00
1019	Mild steel hooks	each	2.00	30.00	60.00
9999	Locking arrangements and handles	L.S.	167.70	1.49	249.87
9999	Rivets	L.S.	269.10	1.49	400.96
	Priming coat- M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89				
13.50.3	Rate as per Item Number 13.50.3 of SH:	sqm	15.41	20.70	318.99(A)
	Finishing				
	LABOUR:				
0116	Fitter (grade 1)	day	2.00	301.00	602.00
0102	Blacksmith 1 st class	day	3.00	301.00	903.00
0103	Blacksmith 2nd class	day	4.00	273.00	1,092.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	5.00	247.00	1,235.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				12,697.19
	Add Water Charges @ 1% except on A i.e on (12,697.19 - 318.99 =) 12,378.20				123.78
	TOTAL				12,820.97
	Add CPOH @ 15% except on A i.e on (12,820.97 - 318.99 =) 12,501.98				1,875.30
	Cost of 5.76 sqm				14,696.27
	Cost of 1 sqm				2,551.44
	Say				2,551.45

10.5.2 Using flats 30x6 mm for diagonal braces and central cross piece

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1013	<i>Details of cost for one double leaf door size 2.4x2.4m = 5.76sqm.qm.</i> MATERIAL: (i) M.S. sheet 1mm thick 5.76sqm. @ 7.85kg/sqm. = 45.216kg. Add wastage @ 10% = 4.522kg. Total = 49.738kg = 0.497 q Mild steel sheets for tanks (ii) Gussets plates-3.00mm thick vide (ii) in item 10.4 = 0.5910sqm. at mid height = 4x0.0528 = 0.2112sqm. Total = 0.8022sqm. Add wastage @ 10% = 0.0802sqm. Total = 0.8824sqm. @ 23.55 kg/sqm = 20.78 kg Grand Total = 0.2078 qtl Mild steel plates (iii) Angle iron:40x40x6mm @3.5kg/m Sides-4x2.40 = 9.6m Top & bottom-4x1.20=4.8m Total = 14.40m Add wastage @ 10% = 1.44m Total = 15.84m 15.84m @ 3.5kg. per m..= 55.44kg =0.554qtl Structural steel such as tees, angles channels and R.S. joists (iv) Flats 30x6mm @1.4kg/m 4x2.45=9.80m+ 2x1.20=2.40m Total = 12.20m+ Add wastage @ 10% = 1.22m Total = 13.42m 13.42m @ 1.4kg. per m. = 18.788kg. = 0.188q Flats up to 10 mm in thickness Carriage of (i) (ii) and (iv)-0.0497+0.0208+0.0554+0.0188=0.1447 tonne Carriage of steel Iron pintels including welded pin Mild steel sheets with bolts and nuts to rest on pintels	quintal	0.497	4,600.00	2,286.20
1010		quintal	0.2078	4,500.00	935.10
1007		quintal	0.554	4,250.00	2,354.50
1008		quintal	0.188	4,200.00	789.60
2205		tonne	0.1447	77.87	11.27
1036		each	4.00	35.00	140.00
1222		each	4.00	110.00	440.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1019	Mild steel hooks	each	2.00	30.00	60.00
9999	Locking arrangements and handles	L.S.	167.70	1.49	249.87
9999	Rivets	L.S.	269.10	1.49	400.96
	Applying priming coat: M.S. sheet = 11.52 Angle iron-0.16x24.3 = 3.89 0.16x14.40 = 2.30+ Flats 0.072x12.2 = 0.88 Total = 14.70 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing LABOUR:	sqm	14.70	20.70	304.29(A)
0116	Fitter (grade 1)	day	2.00	301.00	602.00
0102	Blacksmith 1 st class	day	3.00	301.00	903.00
0103	Blacksmith 2nd class	day	4.00	273.00	1,092.00
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0124	Mason (brick layer) 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	5.00	247.00	1,235.00
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				12,078.81
	Add Water Charges @ 1% except on A i.e on (12,078.81 - 304.29 =) 11,774.52				117.75
	TOTAL				12,196.56
	Add CPOH @ 15% except on A i.e on (12,196.56 - 304.29 =) 11,892.27				1,783.84
	Cost of 5.76 sqm				13,980.40
	Cost of 1 sqm				2,427.15
	Say				2,427.15

10.6 Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 – part 1 and M.S. top cover of required thickness for rolling shutters.

10.6.1 80x1.25 mm M.S. laths with 1.25 mm thick top cover

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a rolling shutter of size 3mx2.5m = 7.5 sqm.</i>				
	MATERIAL:				
0973	Rolling shutter made of 80x1.25 mm machine rolled laths	sqm	7.50	1,150.00	8,625.00
0974	Top cover for rolling shutters 1.25 mm thick	metre	2.50	550.00	1,375.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.00	250.00	250.00
9999	Carriage	L.S.	53.82	1.49	80.19
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	301.00	767.55
0114	Beldar	day	2.55	247.00	629.85
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76
9999	Sundries	L.S.	60.58	1.49	90.26
	TOTAL				11,886.73
	Add Water Charges @ 1%				118.87
	TOTAL				12,005.60
	Add CPOH @ 15%				1,800.84
	Cost of 7.5 sqm				13,806.44
	Cost of 1 sqm				1,840.86
	Say				1,840.85

10.6.2 80x1.20 mm M.S. laths with 1.20 mm thick top cover

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a rolling shutter of size 3mx2.5m = 7.5 sqm.</i>				
	MATERIAL:				
7045	Rolling shutters of 80x1.2 mm laths	sqm	7.50	1,010.00	7,575.00
7047	Top cover of Rolling shutters 1.20 mm thick	metre	2.50	305.00	762.50
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.00	250.00	250.00
9999	Carriage	L.S.	53.82	1.49	80.19
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	301.00	767.55
0114	Beldar	day	2.55	247.00	629.85
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76
9999	Sundries	L.S.	60.58	1.49	90.26
	TOTAL				10,224.23
	Add Water Charges @ 1%				102.24
	TOTAL				10,326.47
	Add CPOH @ 15%				1,548.97
	Cost of 7.5 sqm				11,875.44
	Cost of 1 sqm				1,583.39
	Say				1,583.40

10.6.3 80x0.90 mm M.S. laths with 0.90 mm thick top cover

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a rolling shutter of size 3mx2.5m = 7.5 sqm.</i>				
	MATERIAL:				
7044	Rolling shutters of 80x0.90 mm laths	sqm	7.50	930.00	6,975.00
7046	Top cover of Rolling shutters 0.90 mm thick	metre	2.50	270.00	675.00
0975	27.5 cm long wire spring grade No. 2 for rolling shutters	each	1.00	250.00	250.00
9999	Carriage	L.S.	53.82	1.49	80.19
	LABOUR:				
0116	Fitter (grade 1)	day	2.55	301.00	767.55
0114	Beldar	day	2.55	247.00	629.85
0123	Mason (brick layer) 1 st class	day	0.12	301.00	36.12
0124	Mason (brick layer) 2nd class	day	0.12	273.00	32.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	60.58	1.49	90.26
	TOTAL				9,536.73
	Add Water Charges @ 1%				95.37
	TOTAL				9,632.10
	Add CPOH @ 15%				1,444.82
	Cost of 7.5 sqm				11,076.92
	Cost of 1 sqm				1,476.92
	Say				1,476.90

10.7 Providing and fixing ball bearing for rolling shutters.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0976	<i>Details of cost for 1 no</i> Ball bearing for rolling shutters	each	1.00	330.00	330.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				370.10
	Add Water Charges @ 1%				3.70
	TOTAL				373.80
	Add CPOH @ 15%				56.07
	Cost of each				429.87
	Say				429.85

10.8 Extra for providing mechanical device chain and crank operation for operating rolling shutters

10.8.1 Exceeding 10.00 sqm and upto 16.80 sqm in the area

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0977	<i>Details of cost for one sqm</i> Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door	sqm	1.00	520.00	520.00
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				540.14
	Add Water Charges @ 1%				5.40
	TOTAL				545.54
	Add CPOH @ 15%				81.83
	Cost of 1 sqm				627.37
	Say				627.35

10.8.2 Exceeding 16.80 sqm in area

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0978	<i>Details of cost for one sqm</i> Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 16.80 sqm area of door	sqm	1.00	550.00	550.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				570.14
	Add Water Charges @ 1%				5.70
	TOTAL				575.84
	Add CPOH @ 15%				86.38
	Cost of 1 sqm				662.22
	Say				662.20

10.9 Extra for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in-Charge, (area of grill to be measured).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7068	<i>Details of cost for a shutter of width 2.5m and grill height 0.6m</i> <i>Grill Area = 1.50sqm</i> MATERIAL: Extra for providing grilled rolling shutters with 8 mm dia M.S. rod instead of laths	sqm	1.50	225.00	337.50
	TOTAL				337.50
	Add Water Charges @ 1%				3.38
	TOTAL				340.88
	Add CPOH @ 15%				51.13
	Cost of 1.5 sqm				392.01
	Cost of 1 sqm				261.34
	Say				261.35

10.10 Fixing standard steel glazed doors, windows and ventilators in walls, including fixing of float glass panes with glazing clips and special metal-sash putty of approved make, or metal beading with screws, (only steel windows, glass panes cut to size and glazing clips or metal beading with screws, shall be supplied by department free of cost.

10.10.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.2.5	<i>Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg)</i> MATERIAL: Cement concrete blocks 15x10x10cm = 0.009 cum Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	4,782.35	43.04 (A)
	LABOUR:				
0102	Blacksmith 1 st class	day	0.17	301.00	51.17
0123	Mason (brick layer) 1 st class	day	0.08	301.00	24.08
0124	Mason (brick layer) 2nd class	day	0.08	273.00	21.84
0114	Beldar	day	0.50	247.00	123.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for carriage of material	L.S.	67.28	1.49	100.25
	TOTAL				363.88
	Add Water Charges @ 1% except on A i.e on (363.88 - 43.04 =) 320.84				3.21
	TOTAL				367.09
	Add CPOH @ 15% except on A i.e on (367.09 - 43.04 =) 324.05				48.61
	Cost of 15 kg				415.70
	Cost of 1 kg				27.71
	Say				27.70

10.10.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one door 2x0.76m = 1.52sqm.(weight 15 kg)</i>				
	LABOUR:				
0102	Blacksmith 1 st class	day	0.17	301.00	51.17
0114	Beldar	day	0.17	247.00	41.99
9999	Sundries for carriage of material	L.S.	67.28	1.49	100.25
	TOTAL				193.41
	Add Water Charges @ 1%				1.93
	TOTAL				195.34
	Add CPOH @ 15%				29.30
	Cost of 15 kg				224.64
	Cost of 1 kg				14.98
	Say				15.00

10.11 Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side / top / centre hung, with beading and all members such as F7D, F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment).

10.11.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a double leaf door of size 2.075x1.175m = 2.44 sqm. (weight 30 kg)</i>				
	MATERIAL:				
1011	Steel glazed door,window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.00	48.00	1,440.00
9999	Carriage of steel door	L.S.	40.37	1.49	60.15
	LABOUR:				
	for fabrication				
0103	Blacksmith 2nd class	day	0.17	273.00	46.41
0116	Fitter (grade 1)	day	0.26	301.00	78.26

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.34	247.00	83.98
9999	Sundries	L.S.	15.37	1.49	22.90
	Fixing with CC 1:3:6 blocks, wooden plugs and screws or rawl plugs and screws or with fixing clips and bolts and nuts as required including metal sash putty for glass fixing				
10.10.1	Rate as per Item Number 10.10.1	kg	30.00	27.70	831.00 (A)
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.44	20.70	50.51 (A)
	TOTAL				2,613.21
	Add Water Charges @ 1% except on A i.e on (2,613.21 - 881.51 =) 1,731.70				17.32
	TOTAL				2,630.53
	Add CPOH @ 15% except on A i.e on (2,630.53 - 881.51 =) 1,749.02				262.35
	Cost of 30 kg				2,892.88
	Cost of 1 kg				96.43
	Say				96.45

10.11.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a double leaf door of size 2.075x1.175m = 2.44 sqm. (weight 30 kg)</i>				
	MATERIAL:				
1011	Steel glazed door, window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	30.00	48.00	1,440.00
9999	Carriage of steel door	L.S.	40.37	1.49	60.15
	LABOUR:				
	for fabrication				
0103	Blacksmith 2nd class	day	0.17	273.00	46.41
0116	Fitter (grade 1)	day	0.26	301.00	78.26
0114	Beldar	day	0.34	247.00	83.98
9999	Sundries	L.S.	15.37	1.49	22.90
	Apply steel primer (2.44x 1.00 for both sides =2.44 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.44	20.70	50.51(A)
	TOTAL				1,782.21
	Add Water Charges @ 1% except on A i.e on (1,782.21 - 50.51 =) 1,731.70				17.32
	TOTAL				1,799.53
	Add CPOH @ 15% except on A i.e on (1,799.53 - 50.51 =) 1,749.02				262.35
	Cost of 30 kg				2,061.88
	Cost of 1 kg				68.73
	Say				68.75

10.12 Extra for providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws instead of glazing clips and metal sash putty, in steel doors, windows, ventilators and composite units.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 metre beading for doors, windows, Ventilators and composite units</i>				
1143	Steel beading	metre	1.00	20.00	20.00
9999	Applying priming coat	L.S.	0.46	1.49	0.69
9999	Fixing charges	L.S.	3.01	1.49	4.48
	TOTAL				25.17
	Add Water Charges @ 1%				0.25
	TOTAL				25.42
	Add CPOH @ 15%				3.81
	Cost of 1 metre				29.23
	Say				29.25

10.13 Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.13.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 17.5 kg MATERIAL:</i>				
	Tee iron 40x40x6mm = 2 + 2 + 1 = 5m 5 metres @3.5kg/m = 17.5kg.+ Add wastage @ 5% = 0.87kg. Total = 18.37 kg. Say 0.18 quintal	quintal	0.18	4,250.00	765.00
1007	Structural steel such as tees, angles channels and R.S. joists				
	M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60kg.+ Add wastage @ 5% = 0.03kg. Total = 0.63 kg. Say = 0.006 quintal	quintal	0.006	4,100.00	24.60
1002	Mild steel round bar 12 mm dia and below				
	M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21 kg+ Add wastage @ 5% = 0.01 kg. Total = 0.22 kg	quintal	0.002	4,200.00	8.40
1008	Flats up to 10 mm in thickness				
	Cement concrete block 1:3:6- 6x15x10x10cm= 0.009 cum	cum	0.009	4,782.35	43.04(A)
4.2.5	Rate as per Item Number 4.2.5 of SH:				
	Concrete work				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	for screws and nuts and bolts	L.S.	35.88	1.49	53.46
9999	for applying steel primer	L.S.	17.94	1.49	26.73
9999	Carriage of material	L.S.	5.33	1.49	7.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0103	LABOUR: Blacksmith 2nd class	day	0.10	273.00	27.30
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	TOTAL				1,112.39
	Add Water Charges @ 1% except on A i.e on (1,112.39 - 43.04 =) 1,069.35				10.69
	TOTAL				1,123.08
	Add CPOH @ 15% except on A i.e on (1,123.08 - 43.04 =) 1,080.04				162.01
	Cost of 17.5 kg				1,285.09
	Cost of 1 kg				73.43
	Say				73.45

10.13.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	<i>Details of cost for 17.5 kg</i> MATERIAL: Tee iron 40x40x6mm = 2 + 2 + 1 = 5m 5 metres @3.5kg/m = 17.5kg.+ Add wastage @ 5% = 0.87kg. Total = 18.37 kg. Say 0.18 quintal Structural steel such as tees, angles channels and R.S. joists M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60kg.+ Add wastage @ 5% = 0.03kg. Total = 0.63 kg. Say = 0.006 quintal	quintal	0.18	4,250.00	765.00
1002	Mild steel round bar 12 mm dia and below M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21 kg+ Add wastage @ 5% = 0.01 kg. Total = 0.22 kg	quintal	0.006	4,100.00	24.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	for screws and nuts and bolts	L.S.	35.88	1.49	53.46
9999	for applying steel primer	L.S.	17.94	1.49	26.73
9999	Carriage of material	L.S.	5.33	1.49	7.94
0103	LABOUR: Blacksmith 2nd class	day	0.10	273.00	27.30
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	TOTAL				1,060.95
	Add Water Charges @ 1%				10.61
	TOTAL				1,071.56
	Add CPOH @ 15%				160.73
	Cost of 17.5 kg				1,232.29
	Cost of 1 kg				70.42
	Say				70.40

10.14 Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed, mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:

10.14.1 Profile B

10.14.1.1 Fixing with adjustable lugs with split end tail to each jamb

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B" 2+2+1=5m	metre	5.00	220.00	1,100.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q	L.S.	35.88	1.49	53.46
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR:				
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	Steel primer- 500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68(A)
	TOTAL				1,500.50
	Add Water Charges @ 1% except on A i.e on (1,500.50 - 55.68 =) 1,444.82				14.45
	TOTAL				1,514.95
	Add CPOH @ 15% except on A i.e on (1,514.95 - 55.68 =) 1,459.27				218.89
	Cost of 5 metre				1,733.84
	Cost of 1 metre				346.77
	Say				346.75

10.14.1.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4006	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "B" 2+2+1=5m	metre	5.00	220.00	1,100.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Deduct sundries for not providing adjustable lugs	L.S.	-20.00	1.49	-29.80
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg Say 0.03q	L.S.	35.88	1.49	53.46
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50
9999	Carriage of material LABOUR:	L.S.	5.33	1.49	7.94
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
13.50.3	Steel primer- 500x2(2x1.2+2x6.0+1 x 12.50cm) =2.69 sqm Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68(A)
	TOTAL				1,470.70
	Add Water Charges @ 1% except on A i.e on (1,470.70 - 55.68 =) 1,415.02				14.15
	TOTAL				1,484.85
	Add CPOH @ 15% except on A i.e on (1,484.85 - 55.68 =) 1,429.17				214.38
	Cost of 5 metre				1,699.23
	Cost of 1 metre				339.85
	Say				339.85

10.14.2 Profile C

10.14.2.1 Fixing with adjustable lugs with split end tail to each jamb

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C" 2+2+1=5m	metre	5.00	240.00	1,200.00
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws, nuts and bolts 50x25x5mm. M.S. Angle for threshold 1 metre @ 2.75kg per metre =2.75kg. Say 0.03q	L.S.	35.88	1.49	53.46
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50
9999	Carriage of material LABOUR:	L.S.	5.33	1.49	7.94
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	Steel primer- 500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68 (A)
	TOTAL				1,600.50
	Add Water Charges @ 1% except on A i.e on (1,600.50 - 55.68 =) 1,544.82				15.45
	TOTAL				1,615.95
	Add CPOH @ 15% except on A i.e on (1,615.95 - 55.68 =) 1,560.27				234.04
	Cost of 5 metre				1,849.99
	Cost of 1 metre				370.00
	Say				370.00

10.14.2.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for Cost of 5 metre</i>				
	Details of cost for 5 metre				
	MATERIAL				
4007	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "C"	metre	5.00	240.00	1,200.00
	2+2+1=5				
9999	Sundries for not providing adjustable lugs(-)	L.S.	-20.00	1.49	-29.80
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws and Nuts bolts	L.S.	35.88	1.49	53.46
	50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg. Say 0.03 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	Steel primer-				
	500x2(2x 1.2+2x6.0+1 x 12.50cm) sqm =2.69				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68(A)
	TOTAL				1,570.70
	Add Water Charges @ 1% except on A i.e on (1,570.70 - 55.68 =) 1,515.02				15.15
	TOTAL				1,585.85
	Add CPOH @ 15% except on A i.e on (1,585.85 - 55.68 =) 1,530.17				229.53
	Cost of 5 metre				1,815.38
	Cost of 1 metre				363.08
	Say				363.10

10.14.3 Profile E

10.14.3.1 Fixing with adjustable lugs with split end tail to each jamb

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	5.00	270.00	1,350.00
	2+2+1=5				
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws & Nuts bolts	L.S.	35.88	1.49	53.46
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	(A) Steel primer- 500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm)= 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68 (A)
	TOTAL				1,750.50
	Add Water Charges @ 1% except on A i.e on (1,750.50 - 55.68 =) 1,694.82				16.95
	TOTAL				1,767.45
	Add CPOH @ 15% except on A i.e on (1,767.45 - 55.68 =) 1,711.77				256.77
	Cost of 5 metre				2,024.22
	Cost of 1 metre				404.84
	Say				404.85

10.14.3.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 metre</i>				
	MATERIAL:				
4008	Pressed steel door frames (mild steel sheet 1.60 mm) Profile "E"	metre	5.00	270.00	1,350.00
	2+2+1 =5 m				
9999	Sundries for not providing adjustable lugs (-)	L.S.	-20.00	1.49	-29.80
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	Screws & Nuts bolts	L.S.	35.88	1.49	53.46
	50 x 25 x 5 mm M.S. angle for threshold 1 metre @ 2.75 kg per metre = 2.75 kg . Say 0.03 qtl				
1007	Structural steel such as tees, angles channels and R.S. joists	quintal	0.03	4,250.00	127.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR :				
0116	Fitter (grade 1)	day	0.15	301.00	45.15
0114	Beldar	day	0.20	247.00	49.40
9999	Sundries	L.S.	8.97	1.49	13.37
	(A) Steel primer- 500 x 2 (2x1.2 + 2x6.0 + 1x12.50 cm)= 2.69 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.69	20.70	55.68 (A)
	TOTAL				1,720.70
	Add Water Charges @ 1% except on A i.e on (1,720.70 - 55.68 =) 1,665.02				16.65
	TOTAL				1,737.35
	Add CPOH @ 15% except on A i.e on (1,737.35 - 55.68 =) 1,681.67				252.25
	Cost of 5 metre				1,989.60
	Cost of 1 metre				397.92
	Say				397.90

10.15 Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.

10.15.1 Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4011	<i>Details of cost for 7.13 Kg.</i> MATERIAL: L- section - 32x22x28mm 1.60mm thick 2.00+2.00+1.00 = 5.00 m Width of MS sheet = 32+24.80+22+24.80+10mm = 113.60mm = 0.1136m Area of MS sheet = 0.1136x5.00x0.0016 = 0.0009088 sqm Weight of Sheet = 0.0009088x7850 = 7.134 kg Add wastage @ 5% = 0.357kg. Total = 7.491 kg Say 7.49 kg Mild steel tubes electric resistant or induction butt welded M.S. bars 10mm = 1xm = 1 metre 1 metre @ 0.60kg/m = 0.60kg. Add wastage @ 5% = 0.03 kg. Total = 0.63 kg. Say = 0.006 qunital	kilogram	7.49	65.00	486.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1002	Mild steel round bar 12 mm dia and below M.S. flat 15x3mm = 6x10cm = 0.60 metre 0.6 metre @ 0.35kg/m = 0.21 kg Add wastage @ 5% = 0.01 kg. Total = 0.22 kg	quintal	0.006	4,100.00	24.60
1008	Flats up to 10 mm in thickness Cement concrete block 1:3:6- 6x15x10x10cm= 0.009 cum	quintal	0.002	4,200.00	8.40
4.2.5	Rate as per Item Number 4.2.5 of SH: Concrete work	cum	0.009	4,782.35	43.04(A)
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	for screws and nuts and bolts	L.S.	35.88	1.49	53.46
9999	for applying steel primer	L.S.	17.94	1.49	26.73
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	273.00	10.92
0116	Fitter (grade 1)	day	0.06	301.00	18.06
0114	Beldar	day	0.08	247.00	19.76
9999	Sundries	L.S.	3.64	1.49	5.42
	TOTAL				753.18
	Add Water Charges @ 1% except on A i.e on (753.18 - 43.04 =) 710.14				7.10
	TOTAL				760.28
	Add CPOH @ 15% except on A i.e on (760.28 - 43.04 =) 717.24				107.59
	Cost of 7.13 kg				867.87
	Cost of 1 kg				121.72
	Say				121.70

10.15.2 Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4011	<i>Details of cost for 7.13 kg</i> L- section - 32x22x28mm 1.60mm thick 2.00+2.00+1.00 = 5.00 m Width of MS sheet = 32+24.80+22+24.80+10mm = 113.60mm = 0.1136m Area of MS sheet = 0.1136x5.00x0.0016 = 0.0009088 sqm Weight of Sheet = 0.0009088x7850 = 7.134 kg Add wastage @ 5% = 0.357kg. Total = 7.491 kg Say 7.49 kg Mild steel tubes electric resistant or induction butt welded M.S. bars 10mm = 1x1m = 1 metre 1 metre @ 0.60kg/m = 0.60kg. Add wastage @ 5% = 0.03 kg. Total = 0.63 kg. Say = 0.006 quintal	kilogram	7.49	65.00	486.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1002	Mild steel round bar 12 mm dia and below	quintal	0.006	4,100.00	24.60
0595	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 nos	6.00	80.00	48.00
9999	for screws and nuts and bolts	L.S.	35.88	1.49	53.46
9999	for applying steel primer	L.S.	17.94	1.49	26.73
9999	Carriage of material	L.S.	5.33	1.49	7.94
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	273.00	10.92
0116	Fitter (grade 1)	day	0.06	301.00	18.06
0114	Beldar	day	0.08	247.00	19.76
9999	Sundries	L.S.	3.64	1.49	5.42
	TOTAL				701.74
	Add Water Charges @ 1%				7.02
	TOTAL				708.76
	Add CPOH @ 15%				106.31
	Cost of 7.13 kg				815.07
	Cost of 1 kg				114.32
	Say				114.30

10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.

10.16.1 Hot finished welded type tubes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i>				
	MATERIAL:				
	50mm dia. tube				
	Tie beam-lx8.0m = 8.00m+				
	Principal rafter 2x4.30m = 8.60m				
	= 16.60m				
	16.60m @ 5.10kg./m = 84.66kg.				
	40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)				
	= 2x4.75=9.50m				
	9.50m @ 3.61kg/m = 34.60kg.				
	Total = 118.96kg.				
	Add wastage @ 5% = 5.94kg.				
	Total = 124.90kg. say 125 kg				
4009	Mild steel tubes hot finished welded type	kilogram	125.00	48.00	6,000.00
2205	Carriage of steel	tonne	0.125	77.87	9.73
	Priming coat				
	50mm dia. tube 16.60x0.157m = 1.61 sqm.				
	40mm dia. tube 9.50x0.125m = 1.91 sqm.				
	= 2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.80	20.70	57.96 (A)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1215	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties:- 2x22/7x6.03=37.90cm.+ Members:-2x4x2x22/7x4.83=242.87cm Total = 356.57cm say 357cm Welding by electric plant	cm	357.00	1.50	535.50
0102	LABOUR: For cutting, assembling & erection				
0100	Blacksmith 1 st class	day	1.50	301.00	451.50
0114	Bandhani	day	0.75	260.00	195.00
0114	Beldar	day	5.50	247.00	1,358.50
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				8,728.48
	Add Water Charges @ 1% except on A i.e on (8,728.48 - 57.96 =) 8,670.52				86.71
	TOTAL				8,815.19
	Add CPOH @ 15% except on A i.e on (8,815.19 - 57.96 =) 8,757.23				1,313.58
	Cost of 119 kg				10,128.77
	Cost of 1 kg				85.12
	Say				85.10

10.16.2 Hot finished seamless type tubes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4010	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i> MATERIAL: 50mm dia. tube Tie beam- 1 x 8.0m = 8.00m + Principal rafter 2x4.30m = 8.60m = 16.60m 16.60m @ 5.10 kg/ m = 84.66 kg. 40mm dia. tube Members = 2(0.45+1.25+0.90+2.15) = 2x4.75 = 9.50m 9.50m @ 3.61kg/m = 34.60kg. Total = 118.96kg. Add wastage @ 5% = 5.94kg. Total = 124.90kg. say 125 kg				
2205	Mild steel tubes hot finished seamless type	kilogram	125.00	58.00	7,250.00
	Carriage of steel	tonne	0.125	77.87	9.73
	Priming coat				
	50mm dia. tube 16.60x0.157 m = 1.61 sqm. 40mm dia. tube 9.50x 10125m = 1.91 sqm. Total =2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	2.80	20.70	57.96 (A)
	Welding charges:- Rafter:- 4x22/7x6.03 = 75.80cm.+ Ties :- 2x22/7x6.03=37.90cm.+ Members :- 2x4x2x22/7x4.83 = 242.87cm Total = 356.57 cm say 357 cm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1215	Welding by electric plant	cm	357.00	1.50	535.50
	LABOUR:				
0102	Blacksmith 1 st class	day	1.50	301.00	451.50
0100	Bandhani	day	0.75	260.00	195.00
0114	Beldar	day	5.50	247.00	1,358.50
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				9,978.48
	Add Water Charges @ 1% except on A i.e on (9,978.48 - 57.96 =) 9,920.52				99.21
	TOTAL				10,077.69
	Add CPOH @ 15% except on A i.e on (10,077.69 - 57.96 =) 10,019.73				1,502.96
	Cost of 119 kg				11,580.65
	Cost of 1 kg				97.32
	Say				97.30

10.16.3 Electric resistance or induction butt welded tubes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a truss of span 8 metre weight = 119 kg.</i>				
	MATERIAL:				
	50mm dia. tube				
	Tie beam-1x8.0m = 8.00m+				
	Principal rafter 2x4.30m = 8.60m				
	= 16.60m				
	16.60m @ 5.10kg./m = 84.66kg.				
	40mm dia. tube				
	Members = 2(0.45+1.25+0.90+2.15)				
	= 2x4.75=9.50m				
	9.50m @ 3.61kg/m = 34.60kg.				
	Total = 118.96kg.				
	Add wastage @ 5% = 5.94kg.				
	Total = 124.90kg. say 125 kg				
4011	Mild steel tubes electric resistant or	kilogram	125.00	65.00	8,125.00
	induction butt welded				
2205	Carriage of steel	tonne	0.125	77.87	9.73
	Priming coat				
	50mm dia. tube 16.60x0.157 m = 1.61 sqm.				
	40mm dia. tube 9.50x 10125m = 1.91 sqm.				
	Total =2.80 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH:	sqm	2.80	20.70	57.96 (A)
	Finishing				
	Welding charges:-				
	Rafter:- 4x22/7x6.03 = 75.80cm.+				
	Ties :- 2x22/7x6.03=37.90cm.+				
	Members :- 2x4x2x22/7x4.83 = 242.87cm				
	Total = 356.57 cm say 357 cm				
1215	Welding by electric plant	cm	357.00	1.50	535.50
	LABOUR:				
0102	Blacksmith 1 st class	day	1.50	301.00	451.50
0100	Bandhani	day	0.75	260.00	195.00
0114	Beldar	day	5.50	247.00	1,358.50

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	80.73	1.49	120.29
	TOTAL				10,853.48
	Add Water Charges @ 1% except on A i.e on (10,853.48 - 57.96 =) 10,795.52				107.96
	TOTAL				10,961.44
	Add CPOH @ 15% except on A i.e on (10,961.44 - 57.96 =) 10,903.48				1,635.52
	Cost of 119 kg				12,596.96
	Cost of 1 kg				105.86
	Say				105.85

10.17 Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 clamp</i>				
	MATERIAL:				
	16mm dia. M.S. bar 1m @ 1.58 kg/m				
	1x1.58 = 1.58kg+				
	Add wastage @ 5% = 0.08 kg.				
	Total = 1.66 kg.				
	Say 1.70kg. or 0.017q				
1003	Mild steel round bar above 12 mm dia	quintal	0.017	4,000.00	68.00
	LABOUR:				
0103	Blacksmith 2nd class	day	0.04	273.00	10.92
0114	Beldar	day	0.04	247.00	9.88
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.82	1.49	2.71
	TOTAL				91.51
	Add Water Charges @ 1%				0.92
	TOTAL				92.43
	Add CPOH @ 15%				13.86
	Cost of each				106.29
	Say				106.30

10.18 Providing and fixing circular / hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one box clamp</i>				
	MATERIAL:				
4012	Circular C.I. Box for ceiling fan including bottom and top lids	each	1.00	50.00	50.00
	12mm dia. M.S. bar 80cm @ 0.9kg/m - 0.72kg+				
	Add wastage @ 5% - 0.036				
	Total = 0.756 kg. Say 0.008 q				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1002	Mild steel round bar 12 mm dia and below	quintal	0.008	4,100.00	32.80
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	273.00	8.19
0114	Beldar	day	0.03	247.00	7.41
9999	Sundries (carriage, fixing and painting etc.)	L.S.	1.82	1.49	2.71
	TOTAL				101.11
	Add Water Charges @ 1%				1.01
	TOTAL				102.12
	Add CPOH @ 15%				15.32
	Cost of each				117.44
	Say				117.45

10.19 Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one bolt 16mm dia and 1200mm long.</i>				
	MATERIAL:				
	1.2m @ 1.58kg/m = 1.895 kg = 0.019q				
1035	Bolts and nuts above 300 mm in length	quintal	0.019	5,400.00	102.60
	Plate-100x100x6mm @ 47kg/sqm.				
	Wt. = 0.47kg. = 0.005q				
1010	Mild steel plates	quintal	0.005	4,500.00	22.50
	LABOUR:				
0103	Blacksmith 2nd class	day	0.03	273.00	8.19
9999	Carriage and labour for fixing	L.S.	4.55	1.49	6.78
	TOTAL				140.07
	Add Water Charges @ 1%				1.40
	TOTAL				141.47
	Add CPOH @ 15%				21.22
	Cost of 2.4 kg				162.69
	Cost of 1 kg				67.79
	Say				67.80

10.20 Providing and fixing bolts including nuts and washers complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.10 quintal of nuts and washers</i>				
	MATERIAL:				
1034	Bolts and nuts up to 300 mm in length	quintal	0.10	5,400.00	540.00
2205	Carriage of steel	tonne	0.01	77.87	0.78
	LABOUR:				
0103	Blacksmith 2nd class	day	0.38	273.00	103.74
0114	Beldar	day	0.38	247.00	93.86
9999	Sundries	L.S.	4.55	1.49	6.78
	TOTAL				745.16
	Add Water Charges @ 1%				7.45
	TOTAL				752.61
	Add CPOH @ 15%				112.89
	Cost of 10 kg				865.50
	Cost of 1 kg				86.55
	Say				86.55

10.21 Providing and fixing M.S. rivets of sizes in position.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 0.10 q of rivets</i>				
	MATERIAL:				
1020	Mild steel rivets	quintal	0.10	4,800.00	480.00
2205	Carriage of steel	tonne	0.01	77.87	0.78
	LABOUR:				
0116	Fitter (grade 1)	day	0.83	301.00	249.83
0139	Skilled Beldar (for floor rubbing etc.)	day	0.83	260.00	215.80
9999	Sundries	L.S.	10.79	1.49	16.08
	TOTAL				962.49
	Add Water Charges @ 1%				9.62
	TOTAL				972.11
	Add CPOH @ 15%				145.82
	Cost of 10 kg				1,117.93
	Cost of 1 kg				111.79
	Say				111.80

10.22 Welding by gas or electric plant including transportation of plant at site etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for one cm.</i>				
	MATERIAL:				
1214	Welding by gas plant including transportation of welding plant at site etc. complete	cm	1.00	1.50	1.50
9999	Sundries	L.S.	0.26	1.49	0.39
	TOTAL				1.89
	Add Water Charges @ 1%				0.02
	TOTAL				1.91
	Add CPOH @ 15%				0.29
	Cost of 1 cm				2.20
	Say				2.20

10.23 Item Shifted to Sub head 14 as item 14.73**10.24 Item Shifted to Sub head 14 as item 14.74****10.25 Steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.****10.25.1 In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a flight of staircase of 2.8m height with tread and riser of 200mm & 0.60m wide.</i>				
	MATERIAL:				
	(i) Unequal angles as stringers-75x50x6mm				
	4x12.69x5.6 = 284.25 kg.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	Add wastage @ 5% =14.21 kg. = 298.46kg. Say 2.985q (ii) unequal angles at sides 50x30x5mm 2x14x0.2x3.00=16.8kg. Add wastage @ 5% = 0.84kg. = 17.64 kg. Say 0.176q Total = 3.161q Structural steel such as tees, angles channels and R.S. joists (iii) plate for tread 8mm thick 14x7.5= 105.00kg+ Add wastage @ 5% = 5.25kg. Total = 110.25kg. Say 1.103q	quintal	3.161	4,250.00	13,434.25
1010	Mild steel plates (iv) G. pipe for railing 40mm 2x12.69m = 25.38m+ Add wastage @ 5% = 1.27m = 26.65m	quintal	1.103	4,500.00	4,963.50
1549	G.I. pipes 40 mm dia (v) M.S. round bars 16mm dia. 15x0.75x2x1.58 = 35.55kg.+ Add wastage @ 5% = 1.78kg. Total = 37.33 kg. Say 0.373q	metre	26.65	202.00	5,383.30
1003	Mild steel round bar above 12 mm dia	quintal	0.373	4,000.00	1,492.00
2205	Carriage of steel (3.161 + 1.103+0.373)=4.637q = 0.4637 tonne	tonne	0.4637	77.87	36.11
2271	Carriage of G.I. pipes below 100 mm dia approx. wt. 3.72x26.65=99.14kg	tonne	0.0991	77.87	7.72
1215	Welding by electric plant 23.20m	cm	2,320.00	1.50	3,480.00
0102	LABOUR: Blacksmith 1 st class	day	1.85	301.00	556.85
0114	Beldar	day	1.25	247.00	308.75
0100	Bandhani	day	0.60	260.00	156.00
	Applying priming coat (i) steps 2.4x 14 = 33.60sqm.+ (ii) angles 4x 12.69x0.25 = 12.69sqm.+ (iii) Bars and other components = 2.00 sqm. (L.S.) Total = 48.29 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	48.29	20.70	999.60 (A)
9999	Sundries	L.S.	110.89	1.49	165.23
	TOTAL				30,983.31
	Add Water Charges @ 1% except on A i.e on (30,983.31 - 999.60 =) 29,983.71				299.84
	TOTAL				31,283.15
	Add CPOH @ 15% except on A i.e on (31,283.15 - 999.60 =) 30,283.55				4,542.53
	Cost of 533.1 kg				35,825.68
	Cost of 1 kg				67.20
	Say				67.20

10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1008	<i>Details of cost for 1 mx1 m framed guard bar grating of 0.218 quintal</i> MATERIAL: (i) M.S. flat 50x6 mm 2.4kg/per metre $5.75 \times 2.40 = 13.8\text{kg.} +$ Add wastage@ 5% = 0.69kg Total = 14.49kg. say 14.5 kg Flats up to 10 mm in thickness (ii) 12mm dia. Bars @ 0.89 kg/m $9 \times 1 = 9 \text{ metre @ } 0.89\text{kg/m} = 8.01 \text{ kg} +$ Add wastage @ 5% = 0.40kg. Total=8.41 kg. say 0.084q	quintal	0.145	4,200.00	609.00
1002	Mild steel round bar 12 mm dia and below	quintal	0.084	4,100.00	344.40
2205	Carriage of steel	tonne	0.0229	77.87	1.78
1215	Welding by electric plant 60cm	cm	60.00	1.50	90.00
	LABOUR:				
0102	Blacksmith 1 st class	day	0.70	301.00	210.70
0114	Beldar	day	0.50	247.00	123.50
0100	Bandhani	day	0.25	260.00	65.00
	Applying priming coat 0.65 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.60	20.70	12.42(A)
9999	Sundries	L.S.	4.55	1.49	6.78
	TOTAL				1,463.58
	Add Water Charges @ 1% except on A i.e on (1,463.58 - 12.42 =) 1,451.16				14.51
	TOTAL				1,478.09
	Add CPOH @ 15% except on A i.e on (1,478.09 - 12.42 =) 1,465.67				219.85
	Cost of 21.8 kg				1,697.94
	Cost of 1 kg				77.89
	Say				77.90

10.26 Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.

10.26.1 M.S. tube

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4009	<i>Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m</i> MATERIAL: M.S. tube 40mm nominal bore (medium) = 5.40m @ 3.61kg/m= 19.49kg Add wastage @ 5% =0.097 Total = 20.46 kg Mild steel tubes hot finished welded type	kilogram	20.46	48.00	982.08
2205	Carriage of steel	tonne	0.0205	77.87	1.60
	Priming coat 40mm dia.Tube- $5.4 \times 22/7 \times 0.0483 = 0.82 \text{ sqm}$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	20.70	16.97 (A)
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.00	1.50	108.00
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.24	301.00	72.24
0114	Beldar	day	0.90	247.00	222.30
0100	Bandhani	day	0.12	260.00	31.20
9999	Sundries	L.S.	12.48	1.49	18.60
	TOTAL				1,452.99
	Add Water Charges @ 1% except on A i.e on (1,452.99 - 16.97 =) 1,436.02				14.36
	TOTAL				1,467.35
	Add CPOH @ 15% except on A i.e on (1,467.35 - 16.97 =) 1,450.38				217.56
	Cost of 19.49 kg				1,684.91
	Cost of 1 kg				86.45
	Say				86.45

10.26.2 E.R.W. tubes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m</i>				
	MATERIAL:				
	E.R.W. tube 40mm nominal bore = 5.40m @ 3.28kg/m= 17.31kg				
	Add wastage @ 5% = 0.88 kg				
	Total = 18.59 kg				
4011	Mild steel tubes electric resistant or induction butt welded	kilogram	18.59	65.00	1,208.35
2205	Carriage of steel	tonne	0.0186	77.87	1.45
	Priming coat 40mm dia. Tube- 5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	20.70	16.97 (A)
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.00	1.50	108.00
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.24	301.00	72.24
0114	Beldar	day	0.90	247.00	222.30
0100	Bandhani	day	0.12	260.00	31.20
9999	Sundries	L.S.	12.48	1.49	18.60
	TOTAL				1,679.11
	Add Water Charges @ 1% except on A i.e on (1,679.11 - 16.97 =) 1,662.14				16.62
	TOTAL				1,695.73
	Add CPOH @ 15% except on A i.e on (1,695.73 - 16.97 =) 1,678.76				251.81
	Cost of 17.71 kg				1,947.54
	Cost of 1 kg				109.97
	Say				109.95

10.26.3 G.I. pipes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for hand rail of railing of two flights of staircase, length of hand rail = 5.40m</i>				
	MATERIAL:				
	G.I. pipe 40mm nominal bore = 5.40m				
	Add wastage @ 5% = 0.27m				
	Total = 5.67m				
1549	G.I. pipes 40 mm dia	metre	5.67	202.00	1,145.34
2271	Carriage of G.I. pipes below 100 mm dia (5.67m @ 3.72 kg/m = 21.09kg)	tonne	0.0211	77.87	1.64
	Priming coat 40mm dia.Tube-5.4x22/7x0.0483 = 0.82 sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.82	20.70	16.97 (A)
1215	Welding by electric plant (joints of hand rail and ballustards) 18x4x1.00 = 72cm	cm	72.00	1.50	108.00
	LABOUR:				
	Labour for cutting assembling & erection				
0102	Blacksmith 1 st class	day	0.24	301.00	72.24
0114	Beldar	day	0.90	247.00	222.30
0100	Bandhani	day	0.12	260.00	31.20
9999	Sundries	L.S.	12.48	1.49	18.60
	TOTAL				1,616.29
	Add Water Charges @ 1% except on A i.e on (1,616.29 - 16.97 =) 1,599.32				15.99
	TOTAL				1,632.28
	Add CPOH @ 15% except on A i.e on (1,632.28 - 16.97 =) 1,615.31				242.30
	Cost of 20.09 kg				1,874.58
	Cost of 1 kg				93.31
	Say				93.30

10.27 Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm²), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame, concrete/ masonry, etc. as per direction of Engineer-in-charge.

10.27.1 10 x60 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 Nos</i>				
	MATERIAL:				
2506	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 60 mm	10 nos	10.00	250.00	250.00
0124	Mason (brick layer) 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.40	247.00	98.80

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for carriage of material	L.S.	10.00	1.49	14.90
	TOTAL				472.90
	Add Water Charges @ 1%				4.73
	TOTAL				477.63
	Add CPOH @ 15%				71.64
	Cost of 10 nos				549.27
	Cost of each				54.93
	Say				54.95

10.27.2 10 x80 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2507	Details of cost for 10 Nos MATERIAL: Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 80 mm	10 nos	10.00	293.00	293.00
0124	Mason (brick layer) 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries for carriage of material	L.S.	10.00	1.49	14.90
	TOTAL				515.90
	Add Water Charges @ 1%				5.16
	TOTAL				521.06
	Add CPOH @ 15%				78.16
	Cost of 10 nos				599.22
	Cost of each				59.92
	Say				59.90

10.27.3 10 x120 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2508	Details of cost for 10 Nos MATERIAL: Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 120 mm	10 nos	10.00	364.00	364.00
0124	Mason (brick layer) 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries for carriage of material	L.S.	10.00	1.49	14.90
	TOTAL				638.90
	Add Water Charges @ 1%				6.39
	TOTAL				645.29
	Add CPOH @ 15%				96.79
	Cost of 10 nos				742.08
	Cost of each				74.21
	Say				74.20

10.27.4 10 x140 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos				
	MATERIAL:				
2509	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 140 mm	10 nos	10.00	425.00	425.00
0124	Mason (brick layer) 2nd class	day	0.50	273.00	136.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries for carriage of material	L.S.	10.00	1.49	14.90
	TOTAL				699.90
	Add Water Charges @ 1%				7.00
	TOTAL				706.90
	Add CPOH @ 15%				106.04
	Cost of 10 nos				812.94
	Cost of each				81.29
	Say				81.30

10.27.5 10 x160 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 Nos				
	MATERIAL:				
2510	Carben Steel galvanised dash fastner (min 5 micron) of 10 mm dia double threaded 6.8 grade counter sunk head screw comprising of 10 mm dia polyamide PA 6 grade sleeve. Size 10 mm x 160 mm	10 nos	10.00	560.00	560.00
0124	Mason (brick layer) 2nd class	day	0.60	273.00	163.80
0114	Beldar	day	0.60	247.00	148.20
9999	Sundries for carriage of material	L.S.	10.00	1.49	14.90
	TOTAL				886.90
	Add Water Charges @ 1%				8.87
	TOTAL				895.77
	Add CPOH @ 15%				134.37
	Cost of 10 nos				1,030.14
	Cost of each				103.01
	Say				103.00

10.28 Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-

in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 2 kg (length approx. 1 feet) MATERIAL: Qty= 2 + Add wastage @ 5% = 0.10 Total = 2.1 kg				
4001	Stainless steel (Grade-304)hollow section round/square tubes	kg	2.10	325.00	682.50
4002	Stainless steel bolts/square bar and plates	kg	1.00	120.00	120.00
	LABOUR: for fabrication, assembling, erection, welding, curvaturig, grinding, buffing etc.				
0102	Blacksmith 1 st class	day	0.06	301.00	18.06
0114	Beldar	day	0.20	247.00	49.40
0100	Bandhani	day	0.02	260.00	5.20
9999	Welding of stainless steel section	L.S.	30.00	1.49	44.70
9999	Curvaturig, grinding, finishing, buffing	L.S.	20.00	1.49	29.80
9999	Sundries for making good wall and floors	L.S.	7.50	1.49	11.18
	TOTAL				960.84
	Add Water Charges @ 1%				9.61
	TOTAL				970.45
	Add CPOH @ 15%				145.57
	Cost of 2 kg				1,116.02
	Cost of 1 kg				558.01
	Say				558.00

10.29 Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.

10.29.1 Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window shutter 1.40x1.10=1.54sqm MATERIAL: Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm.				
7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	1.69	230.00	388.70
9999	Carriage M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg	L.S.	1.82	1.49	2.71
1008	Flats up to 10 mm in thickness	quintal	0.0184	4,200.00	77.28
9999	Carriage L.S. 1.82 1.49 2.71				
	LABOUR:				
0103	Blacksmith 2nd class	day	0.17	273.00	46.41
0112	Carpenter 2nd class	day	0.17	273.00	46.41
0114	Beldar	day	0.06	247.00	14.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				608.48
	Add Water Charges @ 1%				6.08
	TOTAL				614.56
	Add CPOH @ 15%				92.18
	Cost of 1.54 sqm				706.74
	Cost of 1 sqm				458.92
	Say				458.90

10.29.2 Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for a window shutter 1.40x1.10=1.54 sqm MATERIAL: Wire gauze 1.40x1.10=1.54 sqm Add wastage @ 10 %=0.15 sqm Total=1.69 sqm.				
8737	Stainless steel wire guage (Grade-304) aperture 1.4 mm and 0.50 mm dia wire	sqm	1.69	760.00	1,284.40
9999	Carriage	L.S.	1.82	1.49	2.71
	M.S. Flat 15x3=2x(1.40+1.10)=5.0 metre Add wastage @ 5%=0.25 m Total=5.25 m 5.25@0.35kg/m=1.84 kg				
1008	Flats up to 10 mm in thickness	quintal	0.0184	4,200.00	77.28
9999	Carriage	L.S.	1.82	1.49	2.71
	LABOUR:				
0103	Blacksmith 2nd class	day	0.17	273.00	46.41
0112	Carpenter 2nd class	day	0.17	273.00	46.41
0114	Beldar	day	0.06	247.00	14.82
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				1,504.18
	Add Water Charges @ 1%				15.04
	TOTAL				1,519.22
	Add CPOH @ 15%				227.88
	Cost of 1.54 sqm				1,747.10
	Cost of 1 sqm				1,134.48
	Say				1,134.50

10.30 Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with :

10.30.1 4.0 mm thick glass panes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 glass panes (area of each pane = 0.10 sqm) MATERIAL: Area of glass panes =1.00 sqm + Add wastage @ 10% = 0.10 Total =1.10 sqm				
2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	1.10	310.00	341.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage	L.S.	1.82	1.49	2.71
0119	LABOUR: Glazier	day	0.13	273.00	35.49
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	1.49	187.11
	TOTAL				566.31
	Add Water Charges @ 1%				5.66
	TOTAL				571.97
	Add CPOH @ 15%				85.80
	Cost of 1 sqm				657.77
	Say				657.75

10.30.2 5.5 mm thick glass panes

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Details of cost for 10 glass panes (area of each glass pane = 0.10 sqm) MATERIAL: Area of glass panes = 1.00 sqm + Add wastage @ 10% = 0.10 Total = 1.10 sqm				
2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	1.10	450.00	495.00
9999	Carriage	L.S.	1.82	1.49	2.71
0119	LABOUR: Glazier	day	0.13	273.00	35.49
9999	Sundries, putty, glazing clips, scaffolding etc.	L.S.	125.58	1.49	187.11
	TOTAL				720.31
	Add Water Charges @ 1%				7.20
	TOTAL				727.51
	Add CPOH @ 15%				109.13
	Cost of 1 sqm				836.64
	Say				836.65

SUB HEAD : 11.0
FLOORING

11.1 Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:

11.1.1 1:4 (1 cement : 4 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	2,900.00	1,638.50
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
	Cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.434	3,485.40	1,512.66
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.02	77.87	1.56
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.08	273.00	294.84
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	1.62	247.00	400.14
0101	Bhisti	day	0.27	260.00	70.20
	TOTAL				4,211.63
	Add Water Charges @ 1%				42.12
	TOTAL				4,253.75
	Add CPOH @ 15%				638.06
	Cost of 10 sqm				4,891.81
	Cost of 1 sqm				489.18
	Say				489.20

11.1.2 - 1:6 (1 cement : 6 coarse sand)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	565.00	2,900.00	1,638.50
2201	Carriage of bricks	1000 Nos	565.00	233.60	131.98
	Cement mortar 1:6				
3.11	Rate as per Item Number 3.11 of SH: Mortars	cum	0.434	2,825.30	1,226.18
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.02	77.87	1.56
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.08	273.00	294.84
0114	Beldar	day	0.25	247.00	61.75
0115	Coolie	day	1.62	247.00	400.14
0101	Bhisti	day	0.27	260.00	70.20
	TOTAL				3,925.15
	Add Water Charges @ 1%				39.25
	TOTAL				3,964.40
	Add CPOH @ 15%				594.66
	Cost of 10 sqm				4,559.06
	Cost of 1 sqm				455.91
	Say				455.90

11.2 Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	645.00	2,900.00	1,870.50
2201	Carriage of bricks	1000 Nos	645.00	233.60	150.67
0983	Fine sand (zone IV)	cum	0.15	640.00	96.00
2261	Carriage of fine sand (1 part badarpur /coarse sand: 2 parts jamuna sand)	cum	0.15	87.60	13.14
	Mud Mortar				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.15	301.10	45.16
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.90	273.00	245.70
0115	Coolie	day	1.98	247.00	489.06
0101	Bhisti	day	0.05	260.00	13.00
	TOTAL				2,923.23
	Add Water Charges @ 1%				29.23
	TOTAL				2,952.46
	Add CPOH @ 15%				442.87
	Cost of 10 sqm				3,395.33
	Cost of 1 sqm				339.53
	Say				339.55

11.3 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.

11.3.1 40 mm thick with 20 mm nominal size stone aggregate

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1,050.00	280.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1,050.00	93.45
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	87.60	31.19
0982	Coarse sand (zone III)	cum	0.178	1,120.00	199.36
2203	Carriage of coarse sand	cum	0.178	87.60	15.59
0367	Portland Cement	tonne	0.17	5,000.00	850.00
2209	Carriage of cement	tonne	0.17	77.87	13.24
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	1.40	247.00	345.80
0101	Bhisti	day	1.04	260.00	270.40
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
9999	Sundries	L.S.	40.43	1.49	60.24

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				2,411.05
	Add Water Charges @ 1%				24.11
	TOTAL				2,435.16
	Add CPOH @ 15%				365.27
	Cost of 10 sqm				2,800.43
	Cost of 1 sqm				280.04
	Say				280.05

11.4 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.267	1,050.00	280.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.089	1,050.00	93.45
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.356	87.60	31.19
0982	Coarse sand (zone III)	cum	0.178	1,120.00	199.36
2203	Carriage of coarse sand	cum	0.178	87.60	15.59
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1,100.00	126.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	87.60	10.07
0367	Portland Cement	tonne	0.211	5,000.00	1,055.00
0367	Portland Cement for Slurry	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.231	77.87	17.99
7254	Hardening compound	litre	2.44	37.00	90.28
9999	Carriage of hardening compound	L.S.	2.73	1.49	4.07
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	2.15	273.00	586.95
0114	Beldar	day	1.60	247.00	395.20
0115	Coolie	day	1.88	247.00	464.36
0101	Bhisti	day	0.27	260.00	70.20
9999	Sundries	L.S.	53.82	1.49	80.19
	TOTAL				3,620.75
	Add Water Charges @ 1%				36.21
	TOTAL				3,656.96
	Add CPOH @ 15%				548.54
	Cost of 10 sqm				4,205.50
	Cost of 1 sqm				420.55
	Say				420.55

- 11.5 62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.334	1,050.00	350.70
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.111	1,050.00	116.55
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.445	87.60	38.98
0982	Coarse sand (zone III)	cum	0.222	1,120.00	248.64
2203	Carriage of coarse sand	cum	0.222	87.60	19.45
0298	Stone Aggregate (Single size) : 06 mm nominal size	cum	0.115	1,100.00	126.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.115	87.60	10.07
0367	Portland Cement	tonne	0.243	5,000.00	1,215.00
0367	Portland Cement for Slurry	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.263	77.87	20.48
7254	Hardening compound	litre	2.44	37.00	90.28
9999	Carriage of handening compound	L.S.	2.73	1.49	4.07
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	2.15	273.00	586.95
0114	Beldar	day	1.86	247.00	459.42
0115	Coolie	day	1.88	247.00	464.36
0101	Bhisti	day	0.27	260.00	70.20
9999	Sundries	L.S.	53.82	1.49	80.19
	TOTAL				4,001.84
	Add Water Charges @ 1%				40.02
	TOTAL				4,041.86
	Add CPOH @ 15%				606.28
	Cost of 10 sqm				4,648.14
	Cost of 1 sqm				464.81
	Say				464.80

- 11.6 Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.**

11.6.1 18 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Cement mortar 1:3 = 0.205 cum+				
	Add for rounding corners = 0.030 cum				
	= 0.235				
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.235	4,145.55	974.20
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.02	77.87	1.56
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.88	273.00	513.24
0115	Coolie	day	1.88	247.00	464.36
0101	Bhisti	day	0.54	260.00	140.40
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				2,223.20
	Add Water Charges @ 1%				22.23
	TOTAL				2,245.43
	Add CPOH @ 15%				336.81
	Cost of 10 sqm				2,582.24
	Cost of 1 sqm				258.22
	Say				258.20

11.7 Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
4.1.3	<i>Details of cost for one cum</i> MATERIAL: Cement concrete 1:2:4 Rate as per Item Number 4.1.3 of SH: Concrete work Extra labour for laying in floors etc.	cum	1.00	4,514.05	4,514.05(A)
0124	Mason (brick layer) 2nd class	day	0.35	273.00	95.55
0114	Beldar	day	0.18	247.00	44.46
0101	Bhisti	day	0.05	260.00	13.00
9999	Sundries	L.S.	19.76	1.49	29.44
	TOTAL				4,696.50
	Add Water Charges @ 1% except on A i.e on (4,696.50 - 4,514.05 =) 182.45				1.82
	TOTAL				4,698.32
	Add CPOH @ 15% except on A i.e on (4,698.32 - 4,514.05 =) 184.27				27.64
	Cost of 1 cum				4,725.96
	Say				4,725.95

11.8 Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc..

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.36	273.00	98.28
0114	Beldar	day	0.36	247.00	88.92
9999	Chequered plate etc.	L.S.	13.52	1.49	20.14
	TOTAL				207.34
	Add Water Charges @ 1%				2.07
	TOTAL				209.41
	Add CPOH @ 15%				31.41
	Cost of 10 sqm				240.82
	Cost of 1 sqm				24.08
	Say				24.10

11.9 40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume including cement slurry etc. complete:

11.9.1 Dark shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1,050.00	238.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1,050.00	79.80
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	87.60	26.54
0982	Coarse sand (zone III)	cum	0.151	1,120.00	169.12
2203	Carriage of coarse sand	cum	0.151	87.60	13.23
0367	Portland Cement	tonne	0.109	5,000.00	545.00
0367	Portland Cement for Slurry	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.129	77.87	10.05
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	180.00	156.96
2268	Carriage of marble dust and/or marble chips	cum	0.051	87.60	4.47
0367	Portland Cement	tonne	0.0405	5,000.00	202.50
2209	Carriage of cement	tonne	0.0405	77.87	3.15
0784	Marble dust/ powder	cum	0.007	1,000.00	7.00
0874	Black colour dark shade pigment 3.5kg/ 50kg of cement = 40.5x3.5/50=2.84kg	kilogram	2.84	55.00	156.20
9999	Carriage of pigment & marble powder etc.	L.S.	3.64	1.49	5.42
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				3,982.00
	Add Water Charges @ 1%				39.82
	TOTAL				4,021.82
	Add CPOH @ 15%				603.27
	Cost of 10 sqm				4,625.09
	Cost of 1 sqm				462.51
	Say				462.50

11.9.2 Light shade pigment with white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9.1	<i>Details of cost for 10 sqm</i> MATERIAL: Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	462.50	4,625.00(A)
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	2.84	70.00	198.80
0874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-2.84	55.00	-156.20
0368	White Cement Deduct for	tonne	0.0405	12,000.00	486.00
0367	Portland Cement	tonne	-0.0405	5,000.00	-202.50
	TOTAL				4,951.10
	Add Water Charges @ 1% except on A i.e on (4,951.10 - 4,625.00 =) 326.10				3.26
	TOTAL				4,954.36
	Add CPOH @ 15% except on A i.e on (4,954.36 - 4,625.00 =) 329.36				49.40
	Cost of 10 sqm				5,003.76
	Cost of 1 sqm				500.38
	Say				500.40

11.9.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9.1	<i>Details of cost for 10 sqm</i> MATERIAL: Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	462.50	4,625.00(A)
0876	Green or blue medium shade pigment Deduct for	kilogram	2.84	60.00	170.40
0874	Black colour dark shade pigment Add difference of cost due to using white cement instead of grey cement Add for	kilogram	-2.84	55.00	-156.20
0368	White Cement Deduct for	tonne	0.0203	12,000.00	243.60
0367	Portland Cement	tonne	-0.0203	5,000.00	-101.50
	TOTAL				4,781.30
	Add Water Charges @ 1% except on A i.e on (4,781.30 - 4,625.00 =) 156.30				1.56
	TOTAL				4,782.86

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Add CPOH @ 15% except on A i.e on (4,782.86 - 4,625.00 =) 157.86				23.68
	Cost of 10 sqm				4,806.54
	Cost of 1 sqm				480.65
	Say				480.65

11.9.4 White cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 34mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.227	1,050.00	238.35
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.076	1,050.00	79.80
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.303	87.60	26.54
0982	Coarse sand (zone III)	cum	0.151	1,120.00	169.12
2203	Carriage of coarse sand	cum	0.151	87.60	13.23
0367	Portland Cement	tonne	0.109	5,000.00	545.00
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.129	77.87	10.05
	For top layer 6 mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.958	180.00	172.44
2268	Carriage of marble dust and/or marble chips	cum	0.056	87.60	4.91
0368	White Cement	tonne	0.0405	12,000.00	486.00
2209	Carriage of cement	tonne	0.0405	77.87	3.15
0784	Marble dust/ powder	cum	0.007	1,000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				4,119.80
	Add Water Charges @ 1%				41.20
	TOTAL				4,161.00
	Add CPOH @ 15%				624.15
	Cost of 10 sqm				4,785.15
	Cost of 1 sqm				478.52
	Say				478.50

11.9.5 Light shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.9.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	462.50	4,625.00(A)
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	70.00	198.80
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				4,667.60
	Add Water Charges @ 1% except on A i.e on (4,667.60 - 4,625.00 =) 42.60				0.43
	TOTAL				4,668.03
	Add CPOH @ 15% except on A i.e on (4,668.03 - 4,625.00 =) 43.03				6.45
	Cost of 10 sqm				4,674.48
	Cost of 1 sqm				467.45
	Say				467.45

11.9.6 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.9.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.9.1 of SH: Flooring less cost of dark shade pigment Deduct for	sqm	10.00	462.50	4,625.00(A)
0874	Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
9999	Deduct for carriage of pigment	L.S.	-0.65	1.49	-0.97
	TOTAL				4,467.83
	Add Water Charges @ 1% except on A i.e on (4467.83 - 4,625.00 =) -157.17				-1.57
	TOTAL				4,466.26
	Add CPOH @ 15% except on A i.e on (4466.26 - 4,625.00 =) -158.74				-23.81
	Cost of 10 sqm				4,442.45
	Cost of 1 sqm				444.25
	Say				444.25

11.10 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 31 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 9 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 4 mm to 7 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder : 7 marble chips) by volume, including cement slurry etc. complete.

11.10.1 Dark shade pigment with Ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1,050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1,050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	87.60	24.53
0982	Coarse sand (zone III)	cum	0.14	1,120.00	156.80
2203	Carriage of coarse sand	cum	0.14	87.60	12.26
0367	Portland Cement	tonne	0.1005	5,000.00	502.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1205	77.87	9.38
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	180.00	252.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	87.60	7.18
0367	Portland Cement	tonne	0.0578	5,000.00	289.00
2209	Carriage of cement	tonne	0.0578	77.87	4.50
0784	Marble dust/ powder	cum	0.012	1,000.00	12.00
0874	Black colour dark shade pigment 3.5kg/ 50kg of cement = 57.80x3.5/50=4.05kg	kilogram	4.05	55.00	222.75
9999	Carriage of pigment & marble powder etc.	L.S.	5.46	1.49	8.14
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	1.49	200.48
	TOTAL				4,119.15
	Add Water Charges @ 1%				41.19
	TOTAL				4,160.34
	Add CPOH @ 15%				624.05
	Cost of 10 sqm				4,784.39
	Cost of 1 sqm				478.44
	Say				478.45

11.10.2 Light shade pigment with white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.10.1	<i>Details of cost for 10 sqm</i>				
	Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.00	478.45	4,784.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	4.05	70.00	283.50
0874	Deduct for Black colour dark shade pigment	kilogram	-4.05	55.00	-222.75
0368	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0578	12,000.00	693.60
0367	Deduct for Portland Cement	tonne	-0.0578	5,000.00	-289.00
	TOTAL				5,249.85
	Add Water Charges @ 1% except on A i.e on (5,249.85 - 4,784.50 =) 465.35				4.65
	TOTAL				5,254.50
	Add CPOH @ 15% except on A i.e on (5,254.50 - 4,784.50 =) 470.00				70.50
	Cost of 10 sqm				5,325.00
	Cost of 1 sqm				532.50
	Say				532.50

11.10.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.10.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.00	478.45	4,784.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0876	Add for Green or blue medium shade pigment	kilogram	4.05	60.00	243.00
0874	Deduct for Black colour dark shade pigment	kilogram	-4.05	55.00	-222.75
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0289	12,000.00	346.80
0367	Deduct for Portland Cement	tonne	-0.0289	5,000.00	-144.50
	TOTAL				5,007.05
	Add Water Charges @ 1% except on A i.e on (5,007.05 - 4,784.50 =) 222.55				2.23
	TOTAL				5,009.28
	Add CPOH @ 15% except on A i.e on (5,009.28 - 4,784.50 =) 224.78				33.72
	Cost of 10 sqm				5,043.00
	Cost of 1 sqm				504.30
	Say				504.30

11.10.4 White cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1,050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1,050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	87.60	24.53
0982	Coarse sand (zone III)	cum	0.14	1,120.00	156.80
2203	Carriage of coarse sand	cum	0.14	87.60	12.26
0367	Portland Cement	tonne	0.1005	5,000.00	502.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1205	77.87	9.38
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	180.00	252.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	87.60	7.18
0368	White Cement	tonne	0.0578	12,000.00	693.60
2209	Carriage of cement	tonne	0.0578	77.87	4.50
0784	Marble dust/ powder	cum	0.012	1,000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	161.46	1.49	240.58
	TOTAL				4,332.96
	Add Water Charges @ 1%				43.33
	TOTAL				4,376.29
	Add CPOH @ 15%				656.44
	Cost of 10 sqm				5,032.73
	Cost of 1 sqm				503.27
	Say				503.25

11.10.5 Light shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.10.1	<i>Details of cost for 10 sqm</i>				
	Rate as per Item Number 11.10.1 of SH: Flooring	sqm	10.00	478.45	4,784.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	70.00	198.80
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				4,827.10
	Add Water Charges @ 1% except on A i.e on (4,827.10 - 4,784.50 =) 42.60				0.43
	TOTAL				4,827.53
	Add CPOH @ 15% except on A i.e on (4,827.53 - 4,784.50 =) 43.03				6.45
	Cost of 10 sqm				4,833.98
	Cost of 1 sqm				483.40
	Say				483.40

11.10.6 - Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 31mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.21	1,050.00	220.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.07	1,050.00	73.50
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.28	87.60	24.53
0982	Coarse sand (zone III)	cum	0.14	1,120.00	156.80
2203	Carriage of coarse sand	cum	0.14	87.60	12.26
0367	Portland Cement	tonne	0.1005	5,000.00	502.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1205	77.87	9.38
	For top layer 9 mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.40	180.00	252.00
2268	Carriage of marble dust and/or marble chips	cum	0.082	87.60	7.18
0367	Portland Cement	tonne	0.0578	5,000.00	289.00
2209	Carriage of cement	tonne	0.0578	77.87	4.50
0784	Marble dust/ powder	cum	0.012	1,000.00	12.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	1.49	200.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				3,888.26
	Add Water Charges @ 1%				38.88
	TOTAL				3,927.14
	Add CPOH @ 15%				589.07
	Cost of 10 sqm				4,516.21
	Cost of 1 sqm				451.62
	Say				451.60

11.11 40 mm thick marble chips flooring, rubbed and polished to granolithic finish, under layer 28 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 12 mm thick with white, black, chocolate, grey yellow or green marble chips of sizes from 7 mm to 10 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 2:3 (2 cement marble powder mix : 3 marble chips) by volume, including cement Slurry etc. complete:

11.11.1 Dark shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1,050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1,050.00	63.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.25	87.60	21.90
0982	Coarse sand (zone III)	cum	0.125	1,120.00	140.00
2203	Carriage of coarse sand	cum	0.125	87.60	10.95
0367	Portland Cement	tonne	0.0897	5,000.00	448.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1097	77.87	8.54
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.734	180.00	312.12
2268	Carriage of marble dust and/or marble chips	cum	0.102	87.60	8.94
0367	Portland Cement	tonne	0.081	5,000.00	405.00
2209	Carriage of cement	tonne	0.081	77.87	6.31
0784	Marble dust/ powder	cum	0.017	1,000.00	17.00
0874	Black colour dark shade pigment @ 3.5kg/50kg of cement = $81 \times 3.5 / 50 = 5.67\text{kg}$	kilogram	5.67	55.00	311.85
9999	Carriage of pigment & marble powder etc.	L.S.	6.24	1.49	9.30
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	156.13	1.49	232.63
	TOTAL				4,319.17
	Add Water Charges @ 1%				43.19
	TOTAL				4,362.36
	Add CPOH @ 15%				654.35
	Cost of 10 sqm				5,016.71
	Cost of 1 sqm				501.67
	Say				501.65

11.11.2 Light shade pigment with white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.11.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.11.1 of SH: Flooring	sqm	10.00	501.65	5,016.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	5.67	70.00	396.90
	Deduct				
0874	Black colour dark shade pigment	kilogram	-5.67	55.00	-311.85
	Add difference of cost due to using white cement instead of grey cement				
	Add for				
0368	White Cement	tonne	0.081	12,000.00	972.00
	Deduct for				
0367	Portland Cement	tonne	-0.081	5,000.00	-405.00
	TOTAL				5,668.55
	Add Water Charges @ 1% except on A i.e on (5,668.55 - 5,016.50 =) 652.05				6.52
	TOTAL				5,675.07
	Add CPOH @ 15% except on A i.e on (5,675.07 - 5,016.50 =) 658.57				98.79
	Cost of 10 sqm				5,773.86
	Cost of 1 sqm				577.39
	Say				577.40

11.11.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.11.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.11.1 of SH: Flooring	sqm	10.00	501.65	5,016.50(A)
	Add difference of cost due to using medium shade pigment instead of dark shade pigment				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0876	Add for Green or blue medium shade pigment	kilogram	5.67	60.00	340.20
0874	Deduct for Black colour dark shade pigment	kilogram	-5.67	55.00	-311.85
0368	Add difference of cost due to using white cement instead of grey cement				
0368	White Cement	tonne	0.0405	12,000.00	486.00
0367	Deduct Portland Cement	tonne	-0.0405	5,000.00	-202.50
	TOTAL				5,328.35
	Add Water Charges @ 1% except on A i.e on (5,328.35 - 5,016.50 =) 311.85				3.12
	TOTAL				5,331.47
	Add CPOH @ 15% except on A i.e on (5,331.47 - 5,016.50 =) 314.97				47.25
	Cost of 10 sqm				5,378.72
	Cost of 1 sqm				537.87
	Say				537.85

11.11.4 White cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1,050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1,050.00	63.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.25	87.60	21.90
0982	Coarse sand (zone III)	cum	0.125	1,120.00	140.00
2203	Carriage of coarse sand	cum	0.125	87.60	10.95
0367	Portland Cement	tonne	0.0897	5,000.00	448.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1097	77.87	8.54
	For top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	180.00	344.88
2268	Carriage of marble dust and/or marble chips	cum	0.1128	87.60	9.88
0368	White Cement	tonne	0.081	12,000.00	972.00
2209	Carriage of cement	tonne	0.081	77.87	6.31
0784	Marble dust/ powder	cum	0.017	1,000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	1.49	200.48
	TOTAL				4,566.57
	Add Water Charges @ 1%				45.67
	TOTAL				4,612.24
	Add CPOH @ 15%				691.84
	Cost of 10 sqm				5,304.08
	Cost of 1 sqm				530.41
	Say				530.40

11.11.5 Light shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.11.1	<i>Details of cost for 10 sqm</i> MATERIAL: Rate as per Item Number 11.11.1 of SH: Flooring Add difference of cost due to using light shade pigment instead of dark shade pigment Add for	sqm	10.00	501.65	5,016.50(A)
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment Deduct for	kilogram	5.67	70.00	396.90
0874	Black colour dark shade pigment TOTAL	kilogram	-5.67	55.00	-311.85
	Add Water Charges @ 1% except on A i.e on (5,101.55 - 5,016.50 =) 85.05				5,101.55
	TOTAL				0.85
	Add CPOH @ 15% except on A i.e on (5,102.40 - 5,016.50 =) 85.90				5,102.40
	Cost of 10 sqm				12.88
	Cost of 1 sqm				5,115.28
	Say				511.53
					511.55

11.11.6 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL: For under layer of 28mm thickness				
0296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	0.19	1,050.00	199.50
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.06	1,050.00	63.00
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.25	87.60	21.90
0982	Coarse sand (zone III)	cum	0.125	1,120.00	140.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2203	Carriage of coarse sand	cum	0.125	87.60	10.95
0367	Portland Cement	tonne	0.0897	5,000.00	448.50
0367	Portland Cement	tonne	0.02	5,000.00	100.00
2209	Carriage of cement	tonne	0.1097	77.87	8.54
	for top layer 12mm thick				
0788	Marble chips large size above 4 mm White & black	quintal	1.916	180.00	344.88
2268	Carriage of marble dust and/or marble chips	cum	0.1128	87.60	9.88
0367	Portland Cement	tonne	0.081	5,000.00	405.00
2209	Carriage of cement	tonne	0.081	77.87	6.31
0784	Marble dust/ powder	cum	0.017	1,000.00	17.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.79	273.00	488.67
0114	Beldar	day	1.99	247.00	491.53
0101	Bhisti	day	1.04	260.00	270.40
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0127	Driver (for Road Roller, Concrete Mixer, Truck etc.)	day	0.03	301.00	9.03
0002	Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper	day	0.03	800.00	24.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries	L.S.	134.55	1.49	200.48
	TOTAL				3,999.57
	Add Water Charges @ 1%				40.00
	TOTAL				4,039.57
	Add CPOH @ 15%				605.94
	Cost of 10 sqm				4,645.51
	Cost of 1 sqm				464.55
	Say				464.55

11.12 Marble chips skirting upto 30 cm height, rubbed and polished to granolithic finish, top layer 6 mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from smallest to 4 mm nominal size, laid in cement marble powder mix 3 : 1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume :

11.12.1 18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand)

11.12.1.1 Dark shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	For under layer of 12mm thick cement mortar 1:3 = 0.144+				
	Extra for rounding = 0.03 =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	4,145.55	721.33
	Top layer 6mm thick				
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	180.00	156.96

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
2268	Carriage of marble dust and/or marble chips	cum	0.051	87.60	4.47
0367	Portland Cement	tonne	0.0405	5,000.00	202.50
2209	Carriage of cement	tonne	0.0405	77.87	3.15
0784	Marble dust/ powder	cum	0.007	1,000.00	7.00
0874	Black colour dark shade pigment @ 3.5kg/50kg of cement =40.5x3.5/50=2.84kg	kilogram	2.84	55.00	156.20
9999	Carriage of pigment & marble powder etc. LABOUR:	L.S.	3.64	1.49	5.42
0124	Mason (brick layer) 2nd class	day	3.00	273.00	819.00
0114	Beldar	day	3.00	247.00	741.00
0101	Bhisti	day	1.00	260.00	260.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	260.00	1,820.00
9999	Sundries	L.S.	201.89	1.49	300.82
	TOTAL				5,197.85
	Add Water Charges @ 1%				51.98
	TOTAL				5,249.83
	Add CPOH @ 15%				787.47
	Cost of 10 sqm				6,037.30
	Cost of 1 sqm				603.73
	Say				603.75

11.12.1.2 Light shade pigment with white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.12.1.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	603.75	6,037.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	70.00	198.80
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	Add difference of cost due to using white cement instead of grey cement				
0368	Add for White Cement	tonne	0.0405	12,000.00	486.00
0367	Deduct for Portland Cement	tonne	-0.0405	5,000.00	-202.50
	TOTAL				6,363.60
	Add Water Charges @ 1% except on A i.e on (6,363.60 - 6,037.50 =) 326.10				3.26
	TOTAL				6,366.86
	Add CPOH @ 15% except on A i.e on (6,366.86 - 6,037.50 =) 329.36				49.40
	Cost of 10 sqm				6,416.26
	Cost of 1 sqm				641.63
	Say				641.65

11.12.1.3 Medium shade pigment with 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.12.1.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.12.1.1 of SH: Flooring Add difference of cost due to using medium shade pigment instead of dark shade pigment Add for	sqm	10.00	603.75	6,037.50(A)
0876	Green or blue medium shade pigment	kilogram	2.84	60.00	170.40
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
0368	Add difference of cost due to using white cement instead of grey cement Add for White Cement	tonne	0.0203	12,000.00	243.60
0367	Deduct for Portland Cement	tonne	-0.0203	5,000.00	-101.50
	TOTAL				6,193.80
	Add Water Charges @ 1% except on A i.e on (6,193.80 - 6,037.50 =) 156.30				1.56
	TOTAL				6,195.36
	Add CPOH @ 15% except on A i.e on (6,195.36 - 6,037.50 =) 157.86				23.68
	Cost of 10 sqm				6,219.04
	Cost of 1 sqm				621.90
	Say				621.90

11.12.1.4 White cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL: For under layer of 12mm thick cement mortar 1:3 = 0.144+ Extra for rounding = 0.03 Total =0.174 cum				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.174	4,145.55	721.33
0785	Top layer 6mm thick Marble chips up to 4 mm and down size White & black	quintal	0.958	180.00	172.44
2268	Carriage of marble dust and/or marble chips	cum	0.056	87.60	4.91
0368	White Cement	tonne	0.0405	12,000.00	486.00
2209	Carriage of cement	tonne	0.0405	77.87	3.15
0784	Marble dust/ powder	cum	0.007	1,000.00	7.00
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.00	273.00	819.00
0114	Beldar	day	3.00	247.00	741.00
0101	Bhisti	day	1.00	260.00	260.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	260.00	1,820.00
9999	Sundries	L.S.	201.89	1.49	300.82

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5,335.65
	Add Water Charges @ 1%				53.36
	TOTAL				5,389.01
	Add CPOH @ 15%				808.35
	Cost of 10 sqm				6,197.36
	Cost of 1 sqm				619.74
	Say				619.75

11.12.1.5 Light shade pigment with ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.12.1.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	603.75	6,037.50(A)
	Add difference of cost due to using light shade pigment instead of dark shade pigment				
0875	Add for Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	2.84	70.00	198.80
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
	TOTAL				6,080.10
	Add Water Charges @ 1% except on A i.e on (6,080.10 - 6,037.50 =) 42.60				0.43
	TOTAL				6,080.53
	Add CPOH @ 15% except on A i.e on (6,080.53 - 6,037.50 =) 43.03				6.45
	Cost of 10 sqm				6,086.98
	Cost of 1 sqm				608.70
	Say				608.70

11.12.1.6 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.12.1.1	<i>Details of cost for 10 sqm</i> Rate as per Item Number 11.12.1.1 of SH: Flooring	sqm	10.00	603.75	6,037.50(A)
	Less cost of dark shade pigment				
0874	Deduct for Black colour dark shade pigment	kilogram	-2.84	55.00	-156.20
9999	Deduct for carriage of pigment	L.S.	-0.65	1.49	-0.97
	TOTAL				5,888.33
	Add Water Charges @ 1% except on A i.e on (5,880.33 - 6,037.50 =) -157.17				-1.57
	TOTAL				5,878.76
	Add CPOH @ 15% except on A i.e on (5,878.76 - 6,037.50 =) -158.74				-23.81
	Cost of 10 sqm				5,854.95
	Cost of 1 sqm				585.50
	Say				585.50

11.13 Providing and fixing glass strips in joints of terrazo / cement concrete floors.
11.13.1 40 mm wide and 4 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Glass strips = 10m				
	Add 10% for wastage = 1m				
	Total = 11m				
1149	Glass strip 4 mm thick 40 mm deep	metre	11.00	9.00	99.00
9999	Carriage of glass.	L.S.	2.73	1.49	4.07
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	0.25	247.00	61.75
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				253.21
	Add Water Charges @ 1%				2.53
	TOTAL				255.74
	Add CPOH @ 15%				38.36
	Cost of 10 metre				294.10
	Cost of 1 metre				29.41
	Say				29.40

11.14 Extra for laying terrazo flooring on staircase treads not exceeding 30 cm in width, including cost of forming, nosing etc..

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	0.30	247.00	74.10
0115	Coolie	day	0.30	247.00	74.10
	TOTAL				230.10
	Add Water Charges @ 1%				2.30
	TOTAL				232.40
	Add CPOH @ 15%				34.86
	Cost of 10 sqm				267.26
	Cost of 1 sqm				26.73
	Say				26.75

11.15 Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete:

11.15.1 18 mm thick crazy marble stone white, black or as specified

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Under layer 25mm thick of cement				
	Concrete 1:2:4 -10x0.025=0.25 cum				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
11.7	Rate as per Item Number 11.7 of SH: Flooring	cum	0.25	4,725.95	1,181.49(A)
	Cement slurry for subgrade and under large cement				
0367	Portland Cement	tonne	0.04	5,000.00	200.00
2209	Carriage of cement	tonne	0.04	77.87	3.11
	LABOUR:				
	Labour for applying cement slurry				
0114	Beldar	day	0.50	247.00	123.50
	Top layer with marble pieces and gap filling with marble powder mixture				
	Marble pieces for crazy flooring				
	(Assume 70% of marble stone are and 30% of joint filler/mixture				
	7sqmx0.02m = 0.14 cum				
	0.872x0.14/0.051 = 2.40q				
2710	White marble makrana second quality plain veined stone pieces for crazy flooring	quintal	2.40	130.00	312.00
0368	White Cement	tonne	0.0405	12,000.00	486.00
0784	Marble dust/ powder	cum	0.007	1,000.00	7.00
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment @ 3.5kg/50kg of cement = 40.5x3.5/50=2.84kg	kilogram	2.84	70.00	198.80
0785	Marble chips up to 4 mm and down size White & black	quintal	0.872	180.00	156.96
2268	Carriage of marble dust and/or marble chips	cum	0.051	87.60	4.47
2209	Carriage of cement	tonne	0.0405	77.87	3.15
9999	Carriage of pigment & marble powder.	L.S.	3.64	1.49	5.42
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.24	77.87	18.69
	Labour for finishing, polishing and fixing-				
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
9999	Sundries including carboranadum etc.	L.S.	134.55	1.49	200.48
0101	Bhisti	day	0.54	260.00	140.40
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
	TOTAL				6,396.67
	Add Water Charges @ 1% except on A i.e on (6,396.67 - 1,181.49 =) 5,215.18				52.15
	TOTAL				6,448.82
	Add CPOH @ 15% except on A i.e on (6,448.82 - 1,181.49 =) 5,267.33				790.10
	Cost of 10 sqm				7,238.92
	Cost of 1 sqm				723.89
	Say				723.90

11.16 Precast terrazzo tiles 22 mm thick with graded marble chips of size upto 12 mm, laid in floors, and landings, jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :

11.16.1 Light shade pigment using white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1201	MATERIAL: Precast terrazzo tiles 22 mm thick (light shade)	sqm	11.00	240.00	2,640.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.044	5,000.00	220.00
	Grey cement for slurry @ 4.4kg/sqm.				
0368	White Cement	tonne	0.044	12,000.00	528.00
	for grouting				
2209	Carriage of cement	tonne	0.088	77.87	6.85
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborantum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				6,623.57
	Add Water Charges @ 1%				66.24
	TOTAL				6,689.81
	Add CPOH @ 15%				1,003.47
	Cost of 10 sqm				7,693.28
	Cost of 1 sqm				769.33
	Say				769.35

11.16.2 - Medium shade pigment using 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1202	MATERIAL: Precast terrazzo tiles 22 mm thick (medium shade)	sqm	11.00	220.00	2,420.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (1 Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Grey cement				
	(i) for slurry @ 4.4kg/sqm =44 kg.+				
	(ii) 50% for grouting = 22kg.				
	Total =66kg or 0.066 tonne				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.066	5,000.00	330.00
	50% white cement for grouting				
0368	White Cement	tonne	0.022	12,000.00	264.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0876	Green or blue medium shade pigment	kilogram	3.08	60.00	184.80
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				6,218.77
	Add Water Charges @ 1%				62.19
	TOTAL				6,280.96
	Add CPOH @ 15%				942.14
	Cost of 10 sqm				7,223.10
	Cost of 1 sqm				722.31
	Say				722.30

11.16.3 Dark shade pigment using ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	200.00	2,200.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (Cement: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total - 88kg or 0.088 tonne				
0367	Portland Cement	tonne	0.088	5,000.00	440.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				5,829.37
	Add Water Charges @ 1%				58.29
	TOTAL				5,887.66
	Add CPOH @ 15%				883.15
	Cost of 10 sqm				6,770.81
	Cost of 1 sqm				677.08
	Say				677.10

11.16.4 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1203	MATERIAL: Precast terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	200.00	2,200.00
9999	including 10% wastage Carriage of tiles	L.S.	40.43	1.49	60.24
3.9	Cement mortar 1:4(1Cement: 4 Coarse sand) Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
0367	Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg.Total = 88kg or 0.088 tonne	tonne	0.088	5,000.00	440.00
2209	Portland Cement	tonne	0.088	77.87	6.85
0874	Carriage of cement	kilogram	3.08	55.00	169.40
	Black colour dark shade pigment				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	Less for dark shade pigment [3.08+2.84 (for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				5,503.77
	Add Water Charges @ 1%				55.04
	TOTAL				5,558.81
	Add CPOH @ 15%				833.82
	Cost of 10 sqm				6,392.63
	Cost of 1 sqm				639.26
	Say				639.25

11.17 Extra if terrazzo tiles are laid in treads of steps not exceeding 30 cm in width.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.22	273.00	60.06
0115	Coolie	day	0.22	247.00	54.34
0139	Skilled Beldar (for floor rubbing etc.)	day	0.65	260.00	169.00
	TOTAL				283.40
	Add Water Charges @ 1%				2.83
	TOTAL				286.23
	Add CPOH @ 15%				42.93
	Cost of 10 sqm				329.16
	Cost of 1 sqm				32.92
	Say				32.90

11.18 Precast terrazzo tiles 22 mm thick with graded marble chips of sizes upto 12 mm, in skirting and risers of steps not exceeding 30 cm in height, on 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand), jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete with tiles of :

11.18.1 Light shade pigment using white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1201	MATERIAL: Precast terrazzo tiles 22 mm thick (light shade)	sqm	11.00	240.00	2,640.00
9999	including 10% wastage Carriage of tiles	L.S.	40.43	1.49	60.24
3.8	Cement mortar 1 :3 (1Cement: 3 Coarse sand)				
0368	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
	White Cement	tonne	0.066	12,000.00	792.00
	For slurry				
	For buttering tiles bed sides =44 kg. +				
	For grouting =22 kg.				
	Total = 66 kg				
2209	Carriage of cement	tonne	0.066	77.87	5.14
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	4.62	70.00	323.40
	66x3.5/50 = 4.62				
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	273.00	887.25
0115	Coolie	day	3.25	247.00	802.75
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	260.00	1,976.00
9999	Sundries including carboranadum stone and	L.S.	161.46	1.49	240.58
	TOTAL				8,324.32
	Add Water Charges @ 1%				83.24
	TOTAL				8,407.56
	Add CPOH @ 15%				1,261.13
	Cost of 10 sqm				9,668.69
	Cost of 1 sqm				966.87
	Say				966.85

11.18.2 Medium shades pigment using 50% white cement and 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1202	MATERIAL: Precast terrazzo tiles 22 mm thick (medium shade)	sqm	11.00	220.00	2,420.00
9999	including wastage & breakage Carriage of tiles	L.S.	40.43	1.49	60.24
3.8	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
0368	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
	50% white cement for slurry				
	White Cement	tonne	0.033	12,000.00	396.00
	50% grey cement for slurry				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0367	Portland Cement	tonne	0.033	5,000.00	165.00
2209	Carriage of cement	tonne	0.066	77.87	5.14
0876	Green or blue medium shade pigment	kilogram	4.62	60.00	277.20
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	273.00	887.25
0115	Coolie	day	3.25	247.00	802.75
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	260.00	1,976.00
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.49	240.58
	TOTAL				7,827.12
	Add Water Charges @ 1%				78.27
	TOTAL				7,905.39
	Add CPOH @ 15%				1,185.81
	Cost of 10 sqm				9,091.20
	Cost of 1 sqm				909.12
	Say				909.10

11.18.3 Dark shade pigment using ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	200.00	2,200.00
	including wastage & breakage				
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar. 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
	Grey cement for slurry				
0367	Portland Cement	tonne	0.066	5,000.00	330.00
2209	Carriage of cement	tonne	0.066	77.87	5.14
0874	Black colour dark shade pigment	kilogram	4.62	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	273.00	887.25
0115	Coolie	day	3.25	247.00	802.75
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	260.00	1,976.00
9999	Sundries including carborandum stone and polishing powder etc.	L.S.	161.46	1.49	240.58
	TOTAL				7,353.02
	Add Water Charges @ 1%				73.53
	TOTAL				7,426.55
	Add CPOH @ 15%				1,113.98
	Cost of 10 sqm				8,540.53
	Cost of 1 sqm				854.05
	Say				854.05

11.18.4 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1203	Precast terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	200.00	2,200.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	including wastage & breakage Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
	Grey cement for slurry				
0367	Portland Cement	tonne	0.066	5,000.00	330.00
2209	Carriage of cement	tonne	0.066	77.87	5.14
0874	Black colour dark shade pigment	kilogram	4.62	55.00	254.10
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.25	273.00	887.25
0115	Coolie	day	3.25	247.00	802.75
0139	Skilled Beldar (for floor rubbing etc.)	day	7.60	260.00	1,976.00
9999	Sundries including carboradum stone and polishing powder etc.	L.S.	161.46	1.49	240.58
	Less for dark shade pigment [4.62+2.84(for tiles)]				
0874	Black colour dark shade pigment	kilogram	-7.46	55.00	-410.30
	TOTAL				6,942.72
	Add Water Charges @ 1%				69.43
	TOTAL				7,012.15
	Add CPOH @ 15%				1,051.82
	Cost of 10 sqm				8,063.97
	Cost of 1 sqm				806.40
	Say				806.40

11.19 Chequered terrazzo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :

11.19.1 Light shade pigment using white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1227	Chequered terrazzo tiles 22 mm thick(light shade)	sqm	11.00	300.00	3,300.00
	including 10% wastage				
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (1 Cement : 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Grey cement for slurry @ 4.4kg/sqm				
0367	Portland Cement	tonne	0.044	5,000.00	220.00
	White cement for grouting				
0368	White Cement	tonne	0.044	12,000.00	528.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				7,283.57
	Add Water Charges @ 1%				72.84
	TOTAL				7,356.41
	Add CPOH @ 15%				1,103.46
	Cost of 10 sqm				8,459.87
	Cost of 1 sqm				845.99
	Say				846.00

11.19.2 Medium shade pigment using 50% white cement, 50% ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1228	Chequered terrazzo tiles 22 mm thick (medium shade) including 10% wastage	sqm	11.00	260.00	2,860.00
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
3.9	Cement mortar 1:4 (1 Cem: 4 Coarse sand) Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Grey cement				
	(i) for slurry @ 4.4kg/sqm =44 kg.+				
	(ii) 50% for grouting = 22kg.				
	Total =66kg or 0.066 tonne				
0367	Portland Cement	tonne	0.066	5,000.00	330.00
	50% white cement for grouting				
0368	White Cement	tonne	0.022	12,000.00	264.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0876	Green or blue medium shade pigment	kilogram	3.08	60.00	184.80
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				6,658.77
	Add Water Charges @ 1%				66.59
	TOTAL				6,725.36
	Add CPOH @ 15%				1,008.80
	Cost of 10 sqm				7,734.16
	Cost of 1 sqm				773.42
	Say				773.40

11.19.3 Dark shade pigment using ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	225.00	2,475.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	including 10% wastage Carriage of tiles	L.S.	40.43	1.49	60.24
3.9	Cement mortar 1:4(1 Cement: 4 Coarse sand) Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.088	5,000.00	440.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	161.98	1.49	241.35
	TOTAL				6,104.37
	Add Water Charges @ 1%				61.04
	TOTAL				6,165.41
	Add CPOH @ 15%				924.81
	Cost of 10 sqm				7,090.22
	Cost of 1 sqm				709.02
	Say				709.00

11.19.4 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1229	Chequered terrazzo tiles 22 mm thick (dark shade)	sqm	11.00	225.00	2,475.00
9999	including 10% wastage Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (1 Cem: 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars Ordinary cement for (i) Cement slurry @ 4.4kg/sqm = 44kg+ (ii) Grouting = 44 kg. Total = 88kg or 0.088 tonne	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.088	5,000.00	440.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	Labour & sundries:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	162.59	1.49	242.26
	Less for dark shade pigment [3.08+2.84(for tiles)]				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				5,779.68
	Add Water Charges @ 1%				57.80
	TOTAL				5,837.48
	Add CPOH @ 15%				875.62
	Cost of 10 sqm				6,713.10
	Cost of 1 sqm				671.31
	Say				671.30

11.20 Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).

11.20.1 Light shade pigment using white cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7070	<i>Details of cost for 10 sqm</i> MATERIAL: Chequerred precast cement concrete tiles 22 mm thick using marble chips of size 6mm - Light shade using white cement including 10% wastage	sqm	11.00	470.00	5,170.00
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
3.9	Cement mortar 1:4(1 Cement: 4 Coarse sand)				
	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
0367	Grey cement slurry @ 4.4kg @sqm	tonne	0.044	5,000.00	220.00
	White cement for grouting				
0368	White Cement	tonne	0.048	12,000.00	576.00
2209	Carriage of cement	tonne	0.092	77.87	7.16
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	1.00	260.00	260.00
	TOTAL				8,206.59
	Add Water Charges @ 1%				82.07
	TOTAL				8,288.66
	Add CPOH @ 15%				1,243.30
	Cost of 10 sqm				9,531.96
	Cost of 1 sqm				953.20
	Say				953.20

11.20.2 Medium shade pigment using 50% white cement 50% Grey cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7237	<i>Details of cost for 10 sqm</i> MATERIAL: Precast chequerred cement tiles 22 mm thick medium shade using 50% white cement 50% ordinary cement	sqm	11.00	360.00	3,960.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	including 10% wastage Carriage of tiles Cement mortar 1:4(1 Cement: 4 Coarse sand)	L.S.	40.43	1.49	60.24
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg. + grey cement for grouting 2.4kg/sqm. = 24 kg. Total = 68 kg	cum	0.22	3,485.40	766.79
0367	Portland Cement White cement for grouting @ 2.4kg/sqm. = 24 kg	tonne	0.068	5,000.00	340.00
0368	White Cement	tonne	0.024	12,000.00	288.00
2209	Carriage of cement	tonne	0.092	77.87	7.16
0876	Green or blue medium shade pigment LABOUR:	kilogram	3.08	60.00	184.80
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	1.00	260.00	260.00
	TOTAL				6,797.79
	Add Water Charges @ 1%				67.98
	TOTAL				6,865.77
	Add CPOH @ 15%				1,029.87
	Cost of 10 sqm				7,895.64
	Cost of 1 sqm				789.56
	Say				789.55

11.20.3 Dark shade pigment using ordinary cement

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	230.00	2,530.00
9999	Carriage of tiles Cement mortar 1:4(1 Cement: 4Coarse sand)	L.S.	40.43	1.49	60.24
3.9	Rate as per Item Number 3.9 of SH: Mortars Grey cement for slurry @ 4.4kg/sqm. = 44 kg. + For grouting = 48 kg. Total=92 kg. say 0.092 tonne	cum	0.22	3,485.40	766.79
0367	Portland Cement	tonne	0.092	5,000.00	460.00
2209	Carriage of cement	tonne	0.092	77.87	7.16
0874	Black colour dark shade pigment LABOUR:	kilogram	3.08	55.00	169.40
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	1.00	260.00	260.00
	TOTAL				5,184.39
	Add Water Charges @ 1%				51.84
	TOTAL				5,236.23
	Add CPOH @ 15%				785.43
	Cost of 10 sqm				6,021.66
	Cost of 1 sqm				602.17
	Say				602.15

11.20.4 Ordinary cement without any pigment

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7236	Precast chequered cement tiles 22 mm thick Dark shade using ordinary cement including 10% wastage	sqm	11.00	230.00	2,530.00
9999	Carriage of tiles	L.S.	40.43	1.49	60.24
	Cement mortar 1:4 (1 Cement 4 Coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.22	3,485.40	766.79
	Grey cement for slurry @ 4.4kg/sqm. = 44 kg				
	For grouting = 48 kg.				
	Total = 92 kg. Say 0.092 tonne				
0367	Portland Cement	tonne	0.092	5,000.00	460.00
2209	Carriage of cement	tonne	0.092	77.87	7.16
0874	Black colour dark shade pigment	kilogram	3.08	55.00	169.40
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0101	Bhisti	day	1.00	260.00	260.00
	Less for dark shade pigment [3.08+2.84 (for tiles)]				
0874	Black colour dark shade pigment	kilogram	-5.92	55.00	-325.60
	TOTAL				4,858.79
	Add Water Charges @ 1%				48.59
	TOTAL				4,907.38
	Add CPOH @ 15%				736.11
	Cost of 10 sqm				5,643.49
	Cost of 1 sqm				564.35
	Say				564.35

11.21 Providing and fixing 10 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting mortar bedding, and joints filled with acid and / or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.

11.21.1 In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)

11.21.1.1 Acid and alkali resistant tile

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick =11.11 Nos+				
	Add wastage and breakage @ 2.5% = 0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 nos	12.00	520.00	624.00
9999	Carriage	L.S.	6.24	1.49	9.30
	10mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand)				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.012	3,485.40	41.82
9999	Mortar for pointing in acid/ alkali resistant cement	L.S.	40.43	1.49	60.24
0367	Cement for slurry over bed @ 3.3kg per sqm Portland Cement	tonne	0.0033	5,000.00	16.50
7024	Difference of cost for using acid proof cement instead of ordinary cement	tonne	0.0079	8,100.00	63.99
0367	Acid Proof cement Deduct Portland Cement	tonne	-0.0079	5,000.00	-39.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				926.05
	Add Water Charges @ 1%				9.26
	TOTAL				935.31
	Add CPOH @ 15%				140.30
	Cost of 1 sqm				1,075.61
	Say				1,075.60

11.21.2 In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)
11.21.2.1 Acid and alkali resistant tile

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Acid proof tiles of size 300x300mm, 10mm thick = 11.11Nos.+				
	Add wastage and breakage @ 2.5% = 0.28 Nos.				
	Total = 11.39 Nos. Say 12 Nos				
7077	Acid and alkali resistant tiles 300x300 mm size, 10 mm thick	10 nos	12.00	520.00	624.00
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	12mm .thick.Cement mortar, 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.014	3,485.40	48.80
	Difference of cost for using acid proof cement instead of ordinary cement				
7024	Acid Proof cement	tonne	0.0086	8,100.00	69.66
	Deduct for				
0367	Portland Cement	tonne	-0.0086	5,000.00	-43.00
9999	Mortar for pointing in acid proof cement	L.S.	40.43	1.49	60.24
	Acid proof cementfor slurry over plaster				
	3.3kg/sqm				
7024	Acid Proof cement	tonne	0.0033	8,100.00	26.73
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				972.83
	Add Water Charges @ 1%				9.73
	TOTAL				982.56
	Add CPOH @ 15%				147.38
	Cost of 1 sqm				1,129.94
	Say				1,129.95

11.22 Tile work in skirting, risers of steps and dado upto 2 m height, over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.

11.22.1 Marble tiles (polished) Raj Nagar

11.22.1.1 8 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
2751	8 mm thick marble tiles (polished) Raj Nagar including wastage	sqm	1.061	340.00	360.74
9999	Carriage of tiles	L.S.	3.90	1.49	5.81
	12mm thick cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing in white cement	L.S.	25.35	1.49	37.77
	Cement for slurry @ 3.3kg/sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
9999	Pigment	L.S.	2.08	1.49	3.10
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of cement etc.	L.S.	16.90	1.49	25.18
	TOTAL				644.14
	Add Water Charges @ 1%				6.44
	TOTAL				650.58
	Add CPOH @ 15%				97.59
	Cost of 1 sqm				748.17
	Say				748.15

11.23 Marble stone flooring with 18 mm thick marble stone as per sample of marble approved by Engineer-in-Charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with :

11.23.1 Makrana white second quality

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
6001	White marble slab Makrana second quality plain veined 18 mm thick	sqm	11.50	1,850.00	21,275.00
3.9	Base mortar 1:4 (1 Cement: 4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars Cement for slurry @4.4kg/sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marble slab LABOUR: (for finishing, polishing and fixing)	L.S.	26.91	1.49	40.10
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries including carriage of cement etc.	L.S.	134.55	1.49	200.48
	TOTAL				25,901.51
	Add Water Charges @ 1%				259.02
	TOTAL				26,160.53
	Add CPOH @ 15%				3,924.08
	Cost of 10 sqm				30,084.61
	Cost of 1 sqm				3,008.46
	Say				3,008.45

11.23.2 Raj Nagar plain

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> MATERIAL: 18mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm				
7071	White marble Raj Nagar plain 18 mm thick upto 0.50 sqm area	sqm	11.50	545.00	6,267.50
3.9	Base mortar 1:4 (1 Cement: 4 Coarse sand) Rate as per Item Number 3.9 of SH: Mortars Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marbles slab LABOUR: (for finishing, polishing and fixing)	L.S.	26.91	1.49	40.10
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.49	200.48

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				10,894.01
	Add Water Charges @ 1%				108.94
	TOTAL				11,002.95
	Add CPOH @ 15%				1,650.44
	Cost of 10 sqm				12,653.39
	Cost of 1 sqm				1,265.34
	Say				1,265.35

11.23.3 Agaria White

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
7850	Agaria White marble slab plain 18 mm thick	sqm	11.50	1,090.00	12,535.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Cement for slurry @, 4.4kg sqm.				
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marbles slab	L.S.	26.91	1.49	40.10
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.49	200.48
	TOTAL				17,161.51
	Add Water Charges @ 1%				171.62
	TOTAL				17,333.13
	Add CPOH @ 15%				2,599.97
	Cost of 10 sqm				19,933.10
	Cost of 1 sqm				1,993.31
	Say				1,993.30

11.23.4 Black Zebra

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6019	Black Zebra marble slab plain 18 mm thick	sqm	11.50	470.00	5,405.00
	Base mortar 1:4 (1 Cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg				
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marbles slab	L.S.	26.91	1.49	40.10
	LABOUR: (for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.49	200.48
	TOTAL				10,031.51
	Add Water Charges @ 1%				100.32
	TOTAL				10,131.83
	Add CPOH @ 15%				1,519.77
	Cost of 10 sqm				11,651.60
	Cost of 1 sqm				1,165.16
	Say				1,165.15

11.23.5 Udaipur green marble

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+ Add for wastage 15% = 1.50sqm. Total = 11.50sqm				
6010	Udaypur green marble slab plain 18 mm thick	sqm	11.50	660.00	7,590.00
3.9	Base mortar 1:4 (1 Cement: 4 coarse sand) Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Cement for slurry @, 4.4kg sqm. (i) for bedding = 44 kg+ (ii) for jointing = 6 kg. Total = 50 kg				
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marbles slab	L.S.	26.91	1.49	40.10
	LABOUR: (for finishing, polishing and fixing)				
0123 M	ason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.49	200.48
	TOTAL				12,216.51
	Add Water Charges @ 1%				122.17
	TOTAL				12,338.68
	Add CPOH @ 15%				1,850.80
	Cost of 10 sqm				14,189.48
	Cost of 1 sqm				1,418.95
	Say				1,418.95

11.23.6 Pink plain marble

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	18mm thick marble slab = 10.00sqm.+				
	Add for wastage 15% = 1.50sqm.				
	Total = 11.50sqm				
6007	Pink marble slab plain 18 mm thick	sqm	11.50	610.00	7,015.00
3.9	Base mortar 1:4 (1 Cement: 4 coarse sand)				
	Rate as per Item Number 3.9 of SH: Mortars				
	Cement for slurry @, 4.4kg sqm.	cum	0.224	3,485.40	780.73
	(i) for bedding = 44 kg+				
	(ii) for jointing = 6 kg.				
	Total = 50 kg				
0367	Portland Cement	tonne	0.05	5,000.00	250.00
9999	Carriage of marbles slab	L.S.	26.91	1.49	40.10
	LABOUR:				
	(for finishing, polishing and fixing)				
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries and carriage of cement etc.	L.S.	134.55	1.49	200.48
	TOTAL				11,641.51
	Add Water Charges @ 1%				116.42
	TOTAL				11,757.93
	Add CPOH @ 15%				1,763.69
	Cost of 10 sqm				13,521.62
	Cost of 1 sqm				1,352.16
	Say				1,352.15

11.24 Extra for pre finished nosing to treads of steps of marble stone.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0126	Mason (for ornamental stone work) 1st class	day	2.00	301.00	602.00
0114	Beldar	day	1.50	247.00	370.50
0139	Skilled Beldar (for floor rubbing etc.)	day	2.50	260.00	650.00
9999	Sundries	L.S.	53.82	1.49	80.19
	TOTAL				1,702.69
	Add Water Charges @ 1%				17.03
	TOTAL				1,719.72
	Add CPOH @ 15%				257.96
	Cost of 10 metre				1,977.68
	Cost of 1 metre				197.77
	Say				197.75

11.25 Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0123	Mason (brick layer) 1st class	day	1.95	301.00	586.95
0114	Beldar	day	1.40	247.00	345.80
0115	Coolie	day	0.75	247.00	185.25
0139	Skilled Beldar (for floor rubbing etc.)	day	3.18	260.00	826.80
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				1,984.90
	Add Water Charges @ 1%				19.85
	TOTAL				2,004.75
	Add CPOH @ 15%				300.71
	Cost of 10 sqm				2,305.46
	Cost of 1 sqm				230.55
	Say				230.55

11.26 Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1: 4 (1 cement : 4 coarse sand) :

11.26.1 25 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	11.50	270.00	3,105.00
	including 15% wastage				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	77.87	52.17
	Cement mortar 1:4(Rate as per item No. 3.9)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	Cement for slurry-				
	(i) for bedding = 44kg+				
	(ii) for joints = 20 kg.				
	Total = 64 kg. or 0.064 tonne				
0367	Portland Cement	tonne	0.064	5,000.00	320.00
2209	Carriage of cement	tonne	0.064	77.87	4.98
0874	Black colour dark shade pigment	kilogram	4.50	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.20	273.00	327.60
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	5.00	260.00	1,300.00
0013	Machine for rubbing of floors	day	4.00	300.00	1,200.00
9999	Sundries	L.S.	208.13	1.49	310.11
	TOTAL				8,142.09
	Add Water Charges @ 1%				81.42
	TOTAL				8,223.51
	Add CPOH @ 15%				1,233.53
	Cost of 10 sqm				9,457.04
	Cost of 1 sqm				945.70
	Say				945.70

11.27 Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
1168	Kota stone slab 20 mm to 25 mm thick (semi-polished)	sqm	11.50	270.00	3,105.00
	including 15% wastage				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	0.67	77.87	52.17
	Cement mortar 1:3 (1 Cement: 3 Coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.144	4,145.55	596.96
0367	Portland Cement	tonne	0.064	5,000.00	320.00
	for slurry				
2209	Carriage of cement	tonne	0.064	77.87	4.98
0874	Black colour dark shade pigment	kilogram	4.50	55.00	247.50
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	3.00	273.00	819.00
0114	Beldar	day	3.00	247.00	741.00
0115	Coolie	day	1.00	247.00	247.00
0139	Skilled Beldar (for floor rubbing etc.)	day	7.00	260.00	1,820.00
9999	Sundries	L.S.	174.98	1.49	260.72
	TOTAL				8,214.33
	Add Water Charges @ 1%				82.14
	TOTAL				8,296.47
	Add CPOH @ 15%				1,244.47
	Cost of 10 sqm				9,540.94
	Cost of 1 sqm				954.09
	Say				954.10

11.28 40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.

11.28.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (undressed)	sqm	11.00	155.00	1,705.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3,129.95	782.49
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.10	301.00	933.10
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	0.55	247.00	135.85

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0101	Bhisti	day	0.27	260.00	70.20
9999	Sundries	L.S.	10.79	1.49	16.08
	TOTAL				3,979.47
	Add Water Charges @ 1%				39.79
	TOTAL				4,019.26
	Add CPOH @ 15%				602.89
	Cost of 10 sqm				4,622.15
	Cost of 1 sqm				462.22
	Say				462.20

11.28.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (undressed)	sqm	11.00	170.00	1,870.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3,129.95	782.49
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.10	301.00	933.10
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	0.55	247.00	135.85
0101	Bhisti	day	0.27	260.00	70.20
9999	Sundries	L.S.	10.79	1.49	16.08
	TOTAL				4,144.47
	Add Water Charges @ 1%				41.44
	TOTAL				4,185.91
	Add CPOH @ 15%				627.89
	Cost of 10 sqm				4,813.80
	Cost of 1 sqm				481.38
	Say				481.40

11.29 40 mm thick fine dressed stone flooring over 20 mm (average)thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.

11.29.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1164	Red sand stone slab 40 mm thick (undressed)	sqm	11.00	155.00	1,705.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand) (i) for bedding = 0.224 cum (ii) for joining = 0.026 cum. Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3,129.95	782.49
3.12	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4,678.60	107.61
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.90	301.00	1,173.90
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	1.40	247.00	345.80
0101	Bhisti	day	0.55	260.00	143.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				4,634.65
	Add Water Charges @ 1%				46.35
	TOTAL				4,681.00
	Add CPOH @ 15%				702.15
	Cost of 10 sqm				5,383.15
	Cost of 1 sqm				538.32
	Say				538.30

11.29.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (undressed)	sqm	11.00	170.00	1,870.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand) (i) for bedding = 0.224 cum (ii) for joining = 0.026 cum. Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3,129.95	782.49
3.12	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4,678.60	107.61
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.90	301.00	1,173.90
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	1.40	247.00	345.80
0101	Bhisti	day	0.55	260.00	143.00
9999	Sundries	L.S.	26.91	1.49	40.10
	TOTAL				4,799.65
	Add Water Charges @ 1%				48.00
	TOTAL				4,847.65
	Add CPOH @ 15%				727.15
	Cost of 10 sqm				5,574.80
	Cost of 1 sqm				557.48
	Say				557.50

11.30 40 mm thick rubbed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints 3 mm thick, side buttered with cement mortar 1:2 (1 cement : 2 stone dust) admixed with pigment to match the shade of stone and pointing with same mortar.

11.30.1 Red sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1164	Red sand stone slab 40 mm thick (un-dressed)	sqm	11.00	155.00	1,705.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				
	Total=0.250cum				
3.10	Rate as per Item Number 3.10 of SH: Mortars	cum	0.25	3,129.95	782.49
	Cement mortar 1:2(1 Cement: 2 stone dust) for pointing				
3.12	Rate as per Item Number 3.12 of SH: Mortars	cum	0.023	4,678.60	107.61
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	3.90	301.00	1,173.90
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	1.40	247.00	345.80
0101	Bhisti	day	0.55	260.00	143.00
9999	Sundries	L.S.	26.91	1.49	40.10
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	260.00	160.68
0013	Machine for rubbing of floors	day	0.988	300.00	296.40
	TOTAL				5,091.73
	Add Water Charges @ 1%				50.92
	TOTAL				5,142.65
	Add CPOH @ 15%				771.40
	Cost of 10 sqm				5,914.05
	Cost of 1 sqm				591.41
	Say				591.40

11.30.2 White sand stone

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Finished work = 10sqm				
	Add wastage 10% =1.00sqm				
	Total = 11.00 sqm				
1165	White sand stone slab 40 mm thick (un-dressed)	sqm	11.00	170.00	1,870.00
9999	Carriage	L.S.	34.06	1.49	50.75
	Cement mortar 1:5 (1 Cement: 5 Coarse sand)				
	(i) for bedding = 0.224 cum				
	(ii) for joining = 0.026 cum.				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.10	Total=0.250cum Rate as per Item Number 3.10 of SH: Mortars Cement mortar 1:2(1 Cement: 2 stone dust) for pointing	cum	0.25	3,129.95	782.49
3.12	Rate as per Item Number 3.12 of SH: Mortars LABOUR:	cum	0.023	4,678.60	107.61
0123	Mason (brick layer) 1 st class	day	3.90	301.00	1,173.90
0100	Bandhani	day	1.10	260.00	286.00
0115	Coolie	day	1.40	247.00	345.80
0101	Bhisti	day	0.55	260.00	143.00
9999	Sundries	L.S.	26.91	1.49	40.10
	Labour for rubbing of stone				
0139	Skilled Beldar (for floor rubbing etc.)	day	0.618	260.00	160.68
0013	Machine for rubbing of floors	day	0.988	300.00	296.40
	TOTAL				5,256.73
	Add Water Charges @ 1%				52.57
	TOTAL				5,309.30
	Add CPOH @ 15%				796.40
	Cost of 10 sqm				6,105.70
	Cost of 1 sqm				610.57
	Say				610.55

11.31 Extra for pre finished nosing in treads of steps of Kota stone / sand stone slab.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0126	<i>Details of cost for 10 sqm</i> LABOUR: Mason (for ornamental stone work) 1st class	day	1.50	301.00	451.50
	TOTAL				451.50
	Add Water Charges @ 1%				4.51
	TOTAL				456.01
	Add CPOH @ 15%				68.40
	Cost of 10 metre				524.41
	Cost of 1 metre				52.44
	Say				52.45

11.32 Extra for Kota stone / sand stone in treads of steps and risers using single length up to 1.05 metre.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0124	<i>Details of cost for 10 sqm</i> LABOUR: Mason (brick layer) 2nd class	day	0.20	273.00	54.60
0114	Beldar	day	0.20	247.00	49.40
	TOTAL				104.00
	Add Water Charges @ 1%				1.04
	TOTAL				105.04
	Add CPOH @ 15%				15.76
	Cost of 10 sqm				120.80
	Cost of 1 sqm				12.08
	Say				12.10

11.33 25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with:

11.33.1 Second class teak wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.5x4=10 sqm</i>				
	MATERIAL:				
	Second class indian teak wood				
	No of joints = $4000/138 = 28.97 = (29-1) = 28$ Nos				
	Qty of wood required				
	$2.5(4+0.336) \times 0.025 = 0.271$ cum				
	Add wastage @ 10 % = 0.027 cum				
	= 0.2981 cum = 298.1 cudm				
1190	Second class teak wood in planks	10 cudm	298.10	720.00	21,463.20
1231	Extra for selected planks of second class teakwood	10 cudm	298.10	115.00	3,428.15
2204	Carriage of timber	cum	0.2981	100.11	29.84
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 nos	200.00	70.00	140.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.68	301.00	806.68
0114	Beldar	day	1.35	247.00	333.45
9999	Sundries for glue etc.	L.S.	33.28	1.49	49.59
	TOTAL				26,250.91
	Add Water Charges @ 1%				262.51
	TOTAL				26,513.42
	Add CPOH @ 15%				3,977.01
	Cost of 10 sqm				30,490.43
	Cost of 1 sqm				3,049.04
	Say				3,049.05

11.33.2 Second class deodar wood

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 2.5 x 4 = 10 sqm</i>				
	MATERIAL:				
	First class deodar wood planks				
	No of joints = $4000/138 = 28.97 = (29-1) = 28$ Nos				
	Qty of wood required				
	$2.5(4+0.336) \times 0.025 = 0.271$ cum				
	Add wastage @ 10 % = 0.027 cum				
	Total = 0.2981 cum = 298.10 cudm				
1194	Second class deodar wood in planks	10 cudm	298.10	480.00	14,308.80
2500	Extra for selected planks of second class deodar wood	10 cudm	298.10	73.00	2,176.13
2204	Carriage of timber	cum	0.2981	100.11	29.84
0682	Oxidised mild steel screws 50 mm (slotted counters sunk head type)	100 nos	200.00	70.00	140.00
	LABOUR:				
0111	Carpenter 1 st class	day	2.16	301.00	650.16
0114	Beldar	day	1.08	247.00	266.76

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries for glue etc.	L.S.	26.91	1.49	40.10
	TOTAL				17,611.79
	Add Water Charges @ 1%				176.12
	TOTAL				17,787.91
	Add CPOH @ 15%				2,668.19
	Cost of 10 sqm				20,456.10
	Cost of 1 sqm				2,045.61
	Say				2,045.60

11.34 38 mm thick wood block flooring of first class teak wood laid over 25 mm thick leveling layer of cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 10mm nominal size) to be paid separately, coated with a thin layer of hot bitumen (blown type) @ 2.45 kg per sqm, including fixing blocks in position after dipping in hot bitumen (blown type) up to half depth, planed, levelled smooth and finished complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Bitumen blown type				
	i) For bed layer @ 2.45kg/sqm. = 2.45kg+				
	ii) For dipping blocks L.S. = 2.00kg.				
	Total = 4.45kg				
0313	Blown type petroleum bitumen of penetration 85/25 of approved quality	tonne	0.0044	37,000.00	162.80
2211	Carriage of tar / bitumen	tonne	0.0044	87.60	0.39
	1st class teak wood in scantling for wooden blocks				
	1 sqm x 0.038 m = 0.038 cum				
	Add 10 % wastage = 0.0038 cum				
	Total = 0.0418 cum or 41.80 cudm				
1187	First class teak wood in scantling	10 cudm	41.80	700.00	2,926.00
2204	Carriage of timber	cum	0.0418	100.11	4.18
	LABOUR:				
0111	Carpenter 1 st class	day	1.75	301.00	526.75
0114	Beldar	day	2.25	247.00	555.75
0115	Coolie	day	1.50	247.00	370.50
0130	Mistry	day	0.10	301.00	30.10
9999	Sundries such as fuel, kerosene oil, sand paper	L.S.	80.73	1.49	120.29
	TOTAL				4,696.76
	Add Water Charges @ 1%				46.97
	TOTAL				4,743.73
	Add CPOH @ 15%				711.56
	Cost of 1 sqm				5,455.29
	Say				5,455.30

11.35 Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60 cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1007	<i>Details of cost for 3m (11.4+0.24kg=11.64kg)</i> MATERIAL: Angle iron 50x50x5 mm +3m Add wastage @ 5% +0.15m Total = 3.15m @ 3.80 kg per m +11.97 kg Say 0.120 qtl Structural steel such as tees, angles channels and R.S. joists Lugs 10x5 mm flat = 6x0.10 = 0.60.@0.40 kg per m = 0.24 kg Add wastage @ 5% = 0.012 kg Total 0.252 kg or 0.0025 qtl	quintal	0.12	4,250.00	510.00
1008	Flats up to 10 mm in thickness	quintal	0.0025	4,200.00	10.50
2205	Carriage of steel	tonne	0.0122	77.87	0.95
1215	Welding by electric plant 6cm (lugs)	cm	6.00	1.50	9.00
9999	Sundries	L.S.	9.10	1.49	13.56
	LABOUR:				
0103	Blacksmith 2nd class	day	0.09	273.00	24.57
0123	Mason (brick layer) 1 st class	day	0.45	301.00	135.45
0114	Beldar	day	0.25	247.00	61.75
	Priming coat 3x0.20=0.60sqm				
13.50.3	Rate as per Item Number 13.50.3 of SH: Finishing	sqm	0.60	20.70	12.42(A)
	TOTAL				778.20
	Add Water Charges @ 1% except on A i.e on (778.20 - 12.42 =) 765.78				7.66
	TOTAL				785.86
	Add CPOH @ 15% except on A i.e on (785.86 - 12.42 =) 773.44				116.02
	Cost of 11.64 kilogram				901.88
	Cost of 1 kilogram				77.48
	Say				77.50

11.36 Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i> MATERIAL: Ceramic Glazed tiles = 1.00 sqm Add for wastage & breakage @ 2.5 % = 0.025 sqm Total = 1.025 sqm				

Code	Description	Unit	Quantity	Rate	Amount
7800	Ceramic Glazed Tiles 1st quality minimum thickness 5mm in all colours shades and designs except burgundy, bottle green, black	sqm	1.025	295.00	302.38
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
3.8	12 mm thick cement mortar 1:3 (1 cement: 3 coarse sand)	cum	0.014	4,145.55	58.04
9999	Rate as per Item Number 3.8 of SH: Mortars	L.S.	40.43	1.49	60.24
	Mortar for pointing in white cement				
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				623.56
	Add Water Charges @ 1%				6.24
	TOTAL				629.80
	Add CPOH @ 15%				94.47
	Cost of 1 sqm				724.27
	Say				724.25

11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	1.025	360.00	369.00
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	20.20	1.49	30.10
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				658.25
	Add Water Charges @ 1%				6.58
	TOTAL				664.83
	Add CPOH @ 15%				99.72
	Cost of 1 sqm				764.55
	Say				764.55

11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Glazed Ceramic floor tiles 300x300 mm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7802	Ceramic Glazed Tiles 1st quality 300 x 300 in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	367.00	376.17
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	20.20	1.49	30.10
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				665.42
	Add Water Charges @ 1%				6.65
	TOTAL				672.07
	Add CPOH @ 15%				100.81
	Cost of 1 sqm				772.88
	Say				772.90

- 11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Rectified glazed Ceramic floor tiles 300x300mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	510.00	522.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	13.47	1.49	20.07
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				801.97
	Add Water Charges @ 1%				8.02
	TOTAL				809.99
	Add CPOH @ 15%				121.50
	Cost of 1 sqm				931.49
	Say				931.50

- 11.40 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Rectified Glazed Ceramic floor tiles 200x300 mm or more = 1.000 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
7804	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	1.025	535.00	548.38

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
3.9	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
9999	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	13.47	1.49	20.07
0367	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
0123	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				827.60
	Add Water Charges @ 1%				8.28
	TOTAL				835.88
	Add CPOH @ 15%				125.38
	Cost of 1 sqm				961.26
	Say				961.25

11.41 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.

11.41.1 Size of Tile 500x500 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50x50 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	735.00	753.37
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,017.94
	Add Water Charges @ 1%				10.18
	TOTAL				1,028.12
	Add CPOH @ 15%				154.22
	Cost of 1 sqm				1,182.34
	Say				1,182.35

11.41.2 Size of Tile 600x600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60x60 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	865.00	886.62
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,151.19
	Add Water Charges @ 1%				11.51
	TOTAL				1,162.70
	Add CPOH @ 15%				174.40
	Cost of 1 sqm				1,337.10
	Say				1,337.10

11.41.3 Size of Tile 800x800 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 80x80 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1,070.00	1,096.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	2.60	1.49	3.87
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie day 0.20 247.00 49.40				
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,359.77
	Add Water Charges @ 1%				13.60
	TOTAL				1,373.37
	Add CPOH @ 15%				206.01
	Cost of 1 sqm				1,579.38
	Say				1,579.40

11.41.4 Size of Tile 1000x1000 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 100x100 cm size = 1.00 sqm				
	Add for wastage & breakage @ 2.5 % = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1,630.00	1,670.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	2.60	1.49	3.87
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries including carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,933.77
	Add Water Charges @ 1%				19.34
	TOTAL				1,953.11
	Add CPOH @ 15%				292.97
	Cost of 1 sqm				2,246.08
	Say				2,246.10

11.42 Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	20 mm thick cement mortar 1:4(1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.024	3,485.40	83.65
9999	Mortar for pointing in white cement	L.S.	40.43	1.49	60.24
	Cement for slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				310.09
	Add Water Charges @ 1%				3.10
	TOTAL				313.19
	Add CPOH @ 15%				46.98
	Cost of 1 sqm				360.17
	Say				360.15

11.43 Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8731	High polymer modified quickset tile per adhesive	Per kg	5.00	16.00	80.00
9999	Mortar for pointing in white cement	L.S.	40.43	1.49	60.24
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.20	247.00	49.40
9999	Sundries i/c carriage of cement etc.	L.S.	26.91	1.49	40.10
	TOTAL				289.94
	Add Water Charges @ 1%				2.90
	TOTAL				292.84
	Add CPOH @ 15%				43.93
	Cost of 1 sqm				336.77
	Say				336.75

11.44 Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement , all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Under layer 12 mm thick cement mortar 1:4				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.14	3,485.40	487.96
0124	Mason (brick layer) 2nd class	day	0.67	273.00	182.91
0114	Beldar	day	0.75	247.00	185.25
0101	Bhisti	day	0.92	260.00	239.20
9999	Scaffolding	L.S.	8.97	1.49	13.37
	Cement slurry for subgrade				
0367	Portland Cement	tonne	0.04	5,000.00	200.00
2209	Carriage of cement	tonne	0.04	77.87	3.11
	Labour for applying cement slurry				
0114	Beldar	day	0.50	247.00	123.50
	Top layer with tile piece and gap filling with cement mortar:				
	Ceramic tile piece for crazy flooring assuming 70% tile area and 30% of joint filler/mixture. $(7.00 \times 0.010) = 0.07$				
	$0.872 \times 0.07 / 0.051 = 1.20$ qtl				
2709	Ceramic Tiles Pieces for Crazy Flooring	quintal	1.20	130.00	156.00
9999	Carriage of tiles	L.S.	62.40	1.49	92.98
	Cement mortar 1:4 for filling of crazy tile : $(300 \times 0.01 = 0.03)$				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
3.9	Rate as per Item Number 3.9 of SH: Mortars Synthetic polyster triangular	cum	0.03	3,485.40	104.56
4.18	Rate as per Item No. 4.18 of SH: Cement Concrete	per bag of 50kg of cement	1.38	53.00	73.14 (A)
4.12	Water proofing compound Rate as per Item No. 4.12 of SH: Cement Concrete	per bag of 50kg of cement	1.38	35.35	48.78 (A)
0123	Mason (brick layer) 1 st class	day	1.20	301.00	361.20
0114	Beldar	day	1.00	247.00	247.00
0115	Coolie	day	1.00	247.00	247.00
0101	Bhisti	day	0.54	260.00	140.40
9999	Sundries	L.S.	67.25	1.49	100.20
	TOTAL				3,006.56
	Add Water Charges @ 1% except on A i.e on (3,006.56 - 121.92 =) 2,884.64				28.85
	TOTAL				3,035.41
	Add CPOH @ 15% except on A i.e on (3,035.41 - 121.92 =) 2,913.49				437.02
	Cost of 10 sqm				3,472.43
	Cost of 1 sqm				347.24
	Say				347.25

11.45 Providing and laying 500x500x40 mm thick Turf paver (Turf pave XD) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
0295	MATERIAL: Stone Aggregate (Single size) : 20 mm nominal size 1 x 10 x 0.15 = 1.5cum	cum	1.50	1,050.00	1,575.00
	LABOUR: for spreading ramming and consolidation of sub grade				
0114	Beldar	day	0.70	247.00	172.90
0115	Coolie	day	0.5	2 247.00	128.44
0101	Bhisti	day	0.36	260.00	93.60
	Providing and filling Jamuna sand				
2.27	Rate as per Item No. 2.27 of SH: Earth Work	cum	1.50	749.30	1,123.95(A)
2708	Truf Paver (500 x 500 x 40 mm)	sqm	10.00	1,080.65	10,806.50
	Labour for laying of Turf pave				
0123	Mason (brick layer) 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	1.00	247.00	247.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	50.00	1.49	74.50
	TOTAL				14,372.39
	Add Water Charges @ 1% except on A i.e on (14,372.39 - 1,123.95 =) 13,248.44				132.48
	TOTAL				14,504.87
	Add CPOH @ 15% except on A i.e on (14,504.87 - 1,123.95 =) 13,380.92				2,007.14
	Cost of 10 sqm				16,512.01
	Cost of 1 sqm				1,651.20
	Say				1,651.20

11.46 Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.

11.46.1 Size of Tile 500x500 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	735.00	753.37
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,019.73
	Add Water Charges @ 1%				10.20
	TOTAL				1,029.93
	Add CPOH @ 15%				154.49
	Cost of 1 sqm				1,184.42
	Say				1,184.40

11.46.2 Size of Tile 600x600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	865.00	886.62
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,152.98
	Add Water Charges @ 1%				11.53
	TOTAL				1,164.51
	Add CPOH @ 15%				174.68
	Cost of 1 sqm				1,339.19
	Say				1,339.20

11.46.3 Size of Tile 800x800 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1,070.00	1,096.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,363.11
	Add Water Charges @ 1%				13.63
	TOTAL				1,376.74
	Add CPOH @ 15%				206.51
	Cost of 1 sqm				1,583.25
	Say				1,583.25

11.46.4 Size of Tile 1000x1000 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1,630.00	1,670.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
	12mm thick cement mortar 1:3 (1 cement : 3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.014	4,145.55	58.04
9999	Mortar for pointing in white cement	L.S.	3.64	1.49	5.42
	Cement slurry over bed @ 3.3 kg per sqm				
0367	Portland Cement	tonne	0.0033	5,000.00	16.50
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.25	247.00	61.75
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,937.11
	Add Water Charges @ 1%				19.37
	TOTAL				1,956.48
	Add CPOH @ 15%				293.47
	Cost of 1 sqm				2,249.95
	Say				2,249.95

11.47 Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.47.1 Size of Tile 500x500 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	735.00	753.37
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.50	247.00	123.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,161.52
	Add Water Charges @ 1%				11.62
	TOTAL				1,173.14
	Add CPOH @ 15%				175.97
	Cost of 1 sqm				1,349.11
	Say				1,349.10

11.47.2 Size of Tile 600x600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	865.00	886.62
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.50	247.00	123.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,294.77
	Add Water Charges @ 1%				12.95
	TOTAL				1,307.72
	Add CPOH @ 15%				196.16
	Cost of 1 sqm				1,503.88
	Say				1,503.90

11.47.3 Size of Tile 800x800 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1,070.00	1,096.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.50	247.00	123.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,504.90
	Add Water Charges @ 1%				15.05
	TOTAL				1,519.95
	Add CPOH @ 15%				227.99
	Cost of 1 sqm				1,747.94
	Say				1,747.95

11.47.4 Size of Tile 1000x1000 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1,630.00	1,670.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0115	Coolie	day	0.50	247.00	123.50
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				2,078.90
	Add Water Charges @ 1%				20.79
	TOTAL				2,099.69
	Add CPOH @ 15%				314.95
	Cost of 1 sqm				2,414.64
	Say				2,414.65

11.48 Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling/ grouting and finishing complete as per direction of Engineer-in-charge.

11.48.1 Size of Tile 500x500 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	Kg	0.21	500.00	105.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.10	301.00	30.10
0115	Coolie	day	0.10	247.00	24.70
9999	Sundries including carriage	L.S.	5.00	1.49	7.45
	TOTAL				167.25
	Add Water Charges @ 1%				1.67
	TOTAL				168.92
	Add CPOH @ 15%				25.34
	Cost of 1 sqm				194.26
	Say				194.25

11.48.2 Size of Tile 600x600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	Kg	0.18	500.00	90.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.08	301.00	24.08
0115	Coolie	day	0.08	247.00	19.76
9999	Sundries including carriage	L.S.	5.00	1.49	7.45
	TOTAL				141.29
	Add Water Charges @ 1%				1.41
	TOTAL				142.70
	Add CPOH @ 15%				21.40
	Cost of 1 sqm				164.10
	Say				164.10

11.48.3 Size of Tile 800x800 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	Kg	0.15	500.00	75.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.06	301.00	18.06
0115	Coolie	day	0.06	247.00	14.82
9999	Sundries including carriage	L.S.	5.00	1.49	7.45
	TOTAL				115.33
	Add Water Charges @ 1%				1.15
	TOTAL				116.48
	Add CPOH @ 15%				17.47
	Cost of 1 sqm				133.95
	Say				133.95

11.48.4 - Size of Tile 1000x1000 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
8682	Epoxy Grout	Kg	0.11	500.00	55.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.04	301.00	12.04
0115	Coolie	day	0.04	247.00	9.88
9999	Sundries including carriage	L.S.	5.00	1.49	7.45
	TOTAL				84.37
	Add Water Charges @ 1%				0.84
	TOTAL				85.21
	Add CPOH @ 15%				12.78
	Cost of 1 sqm				97.99
	Say				98.00

11.49 Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622 , of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).

11.49.1 Size of Tile 500x500 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 50 x 50 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8620	Vitrified floor tile 50x50 cm	sqm	1.025	735.00	753.37
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.40	247.00	98.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,121.77
	Add Water Charges @ 1%				11.22
	TOTAL				1,132.99
	Add CPOH @ 15%				169.95
	Cost of 1 sqm				1,302.94
	Say				1,302.95

11.49.2 Size of Tile 600x600 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
	Vitrified floor tiles 60 x 60 cm size = 1.00 sqm+				
	Add wastage & breakage @ 2.5% = 0.025 sqm				
	Total = 1.025 sqm				
8621	Vitrified floor tile 60x60 cm	sqm	1.025	865.00	886.62
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.40	247.00	98.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,255.02
	Add Water Charges @ 1%				12.55
	TOTAL				1,267.57
	Add CPOH @ 15%				190.14
	Cost of 1 sqm				1,457.71
	Say				1,457.70

11.49.3 Size of Tile 800x800 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL: Vitrified floor tiles 80 x 80 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8622	Vitrified floor tile 80x80 cm	sqm	1.025	1,070.00	1,096.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.40	247.00	98.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				1,465.15
	Add Water Charges @ 1%				14.65
	TOTAL				1,479.80
	Add CPOH @ 15%				221.97
	Cost of 1 sqm				1,701.77
	Say				1,701.75

11.49.4 Size of Tile 1000x1000 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i> MATERIAL: Vitrified floor tiles 100 x 100 cm size = 1.00 sqm+ Add wastage & breakage @ 2.5% = 0.025 sqm Total = 1.025 sqm				
8623	Vitrified floor tile 100x100 cm	sqm	1.025	1,630.00	1,670.75
9999	Carriage of tiles	L.S.	6.24	1.49	9.30
8731	High polymer modified quickset tile per adhesive	Per kg	10.00	16.00	160.00
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.20	301.00	60.20
0115	Coolie	day	0.40	247.00	98.80
9999	Sundries including carriage of quick set polymer etc.	L.S.	26.91	1.49	40.10
	TOTAL				2,039.15
	Add Water Charges @ 1%				20.39
	TOTAL				2,059.54
	Add CPOH @ 15%				308.93
	Cost of 1 sqm				2,368.47
	Say				2,368.45

11.50 Deduct for not grouting the joints with white cement and matching pigment in the items of fixing of vitrified tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
9999	Mortar for pointing in white cement with matching pigment	L.S.	3.12	1.49	4.65
9999	Labour	L.S.	1.00	1.49	1.49
	TOTAL				6.14
	Add Water Charges @ 1%				0.06
	TOTAL				6.20
	Add CPOH @ 15%				0.93
	Cost of 1 sqm				7.13
	Say				7.15

SUB HEAD : 12
ROOFING

12.1 Providing corrugated G.S. sheet roofing including vertical/ curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

12.1.1 1.00 mm thick with zinc coating not less than 275 gm/ m2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm</i> MATERIAL: C.G.S. sheets 2x27 =54 Nos. of size 2.5x0.9 metre @19.35 kg each =1044.90kg. 2x27=54 Nos. of size 2.8x0.9@21.67kg. each = 1170.18kg. Total = 2215.08kg.+ Add 5% Wastage = 110.75kg. Total = 2325.83 kg. 23.26 quintals Galvanised steel corrugated sheets Carriage of G.I.sheet and accessories G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I..J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos Galvanised steel J or L hooks 8 mm dia G.I. Limpet washer (total of seam and J bolts) 884+810=1694 Bitumen washer Carriage of bolts and washers Sundries LABOUR: Mistry Carpenter 2nd class Beldar Red oxide Zinc chromate primer Carriage of material Painter Coolie Brushes, sand papers i/c sundries. Roofing paint for iron sheets in red colour Carriage of paint Painter				
3050	Galvanised steel corrugated sheets	quintal	23.26	5,075.00	1,18,044.50
2302	Carriage of G.I.sheet and accessories	tonne	2.326	77.87	181.13
1022	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots G.I..J or L hooks 8mm dia. (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 nos	884.00	20.00	1,768.00
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	810.00	90.00	7,290.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 nos	1,694.00	35.00	592.90
1208	Bitumen washer	100 nos	1,694.00	25.00	423.50
9999	Carriage of bolts and washers	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	53.82	1.49	80.19
0130	Mistry	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	15.50	273.00	4,231.50
0114	Beldar	day	15.50	247.00	3,828.50
4202	Red oxide Zinc chromate primer	litre	2.53	68.00	172.04
9999	Carriage of material	L.S.	0.52	1.49	0.77
0131	Painter	day	1.13	273.00	308.49
0115	Coolie	day	1.13	247.00	279.11
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.49	75.35
0845	Roofing paint for iron sheets in red colour	litre	3.75	110.00	412.50
9999	Carriage of paint	L.S.	6.76	1.49	10.07
0131	Painter	day	2.53	273.00	690.69

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0115	Coolie	day	2.53	247.00	624.91
9999	Brushes and sandpapers	L.S.	31.98	1.49	47.65
9999	Sundries	L.S.	38.09	1.49	56.75
	TOTAL				1,39,549.95
	Add Water Charges @ 1%				1,395.50
	TOTAL				1,40,945.45
	Add CPOH @ 15%				21,141.82
	Cost of 184.518 sqm				1,62,087.27
	Cost of 1 sqm				878.44
	Say				878.45

12.1.2 0.80 mm thick with zinc coating not less than 275 gm/ m2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<p><i>Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = $2 \times 18.09 \times 5.1 = 184.518$ sqm</i></p> <p>Details of length and breadth. Length = $26(\text{laps}) \times 0.135(\text{each lap}) = 3.51$ Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 m $27 (\text{Nos. of sheets}) \times 0.80 (\text{width of sheet}) = 21.60$ length Less laps = 3.51 Length = 18.09 Breadth on one side- C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1 m MATERIAL: C.G.I.Sheets 0.8mm thick $2 \times 27 = 54$ Nos. @15.82kg.each = 854.38kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) $2 \times 27 = 54$ Nos. Of size. 2.8x0.9 @17.72kg each = 956.8kg (Y) Total of (X)+(Y) = 1811.16kg. Add wastage @5% = 90.56kg. Total = 1901.72kg = 19.02 q</p>				
3050	Galvanised steel corrugated sheets	quintal	19.02	5,075.00	96,526.50
2302	Carriage of G.I.sheet and accessories G.I. seam bolts and nuts 60cm centre to centre zig zag i.e. 30cm. centre to centre straight Breadth is 5.1 metre No. of bolts in one lap $5.1/0.3 = 17$ Nos. $2 \times 26(\text{laps}) \times 17$ Nos. = 884 Nos	tonne	1.902	77.87	148.11

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	884.00	20.00	1,768.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 nos	810.00	90.00	7,290.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810=1694	100 nos	1,694.00	35.00	592.90
1208	Bitumen washer	100 nos	1,694.00	25.00	423.50
9999	Carriage of bolts and washers	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	53.82	1.49	80.19
	LABOUR:				
0130	Mistry	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	15.50	273.00	4,231.50
0114	Beldar	day	15.50	247.00	3,828.50
4202	Red oxide Zinc chromate primer	litre	2.53	68.00	172.04
9999	Carriage of material	L.S.	0.52	1.49	0.77
0131	Painter	day	1.13	273.00	308.49
0115	Coolie	day	1.13	247.00	279.11
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.49	75.35
0845	Roofing paint for iron sheets in red colour	litre	3.75	110.00	412.50
9999	Carriage of paint	L.S.	6.76	1.49	10.07
0131	Painter	day	2.53	273.00	690.69
0115	Coolie	day	2.53	247.00	624.91
9999	Brushes and sandpapers	L.S.	31.98	1.49	47.65
9999	Sundries	L.S.	38.09	1.49	56.75
	TOTAL				1,17,998.93
	Add Water Charges @ 1%				1,179.99
	TOTAL				1,19,178.92
	Add CPOH @ 15%				17,876.84
	Cost of 184.518 sqm				1,37,055.76
	Cost of 1 sqm				742.78
	Say				742.80

12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for roof with each sloping side 18.09x5.10m and the slope being flatter than 1 vertical to 2.5 horizontal. Area of roof = 2x18.09x5.1 = 184.518 sqm</i> Details of length and breadth. Length = 26(laps)x0.135(each lap)=3.51 Width of Corrugated sheet with 10 corrugation measured end to end = 0.8 metres 27 (Nos. of sheets)x0.80 (width of sheet = 21.60 length Less laps = 3.51 Length = 18.09 Breadth on one side- C.G.S. Sheet 1 No. of = 2.5 metres length+ C.G.S. Sheet 1 No. of = 2.8 metres length = 5.3 metres Deduct end lap of 20cm (-)0.2 metres breadth = 5.1m				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	MATERIAL: C.G.I.Sheets 0.8mm thick 2x27=54Nos. @12.82kg.each = 692.28 kg(X) 2.5mx0.9m is the size of plain G.I.sheet which on being corrugated will become 2.5mx0.8m (The size of plain sheet is taken because the weight is available only of plain sheets) (Refer I.S. Code 277-1962) 2x27=54Nos. of size-2.8x0.9 @13.38kg each = 775.44kg (Y) Total of (X)+(Y) = 1467.72kg. Add wastage @5% = 73.39kg. Total = 1541.11kg = 15.41 q				
3050	Galvanised steel corrugated sheets	quintal	15.41	5,075.00	78,205.75
2302	Carriage of G.I.sheet and accessories G.I. seam bolts and nuts 60cm centre to centre zig zag i.e. 30cm centre to centre straight Breadth is 5.1 metre No. of bolts in one lap 5.1/0.3 =17 Nos. 2x26(laps)x17 Nos. = 884 Nos	tonne	1.54	77.87	119.92
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	884.00	20.00	1,768.00
1023	Galvanised steel J or L hooks 8 mm dia (No. of purlins to be used 5 on either side)2x5x27 (No. of sheets)x23 Nos. of bolts in each sheet = 810 Nos	10 nos	810.00	90.00	7,290.00
1207	G.I. Limpet washer (total of seam and J bolts) 884+810= 1694	100 nos	1,694.00	35.00	592.90
1208	Bitumen washer	100 nos	1,694.00	25.00	423.50
9999	Carriage of bolts and washers	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	53.82	1.49	80.19
	LABOUR:				
0130	Mistry	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	15.50	273.00	4,231.50
0114	Beldar	day	15.50	247.00	3,828.50
4202	Red oxide Zinc chromate primer	litre	2.53	68.00	172.04
9999	Carriage of material	L.S.	0.52	1.49	0.77
0131	Painter	day	1.13	273.00	308.49
0115	Coolie	day	1.13	247.00	279.11
9999	Brushes, sand papers i/c sundries.	L.S.	50.57	1.49	75.35
0845	Roofing paint for iron sheets in red colour	litre	3.75	110.00	412.50
9999	Carriage of paint	L.S.	6.76	1.49	10.07
0131	Painter	day	2.53	273.00	690.69
0115	Coolie	day	2.53	247.00	624.91
9999	Brushes and sandpapers	L.S.	31.98	1.49	47.65
9999	Sundries	L.S.	38.09	1.49	56.75
	TOTAL				99,649.99
	Add Water Charges @ 1%				996.50
	TOTAL				1,00,646.49
	Add CPOH @ 15%				15,096.97
	Cost of 184.518 sqm				1,15,743.46
	Cost of 1 sqm				627.27
	Say				627.25

12.2 Extra for straight cutting in C.G.S. sheet roofing for making opening of area exceeding 40 sq decimeter for chimney stacks, skylight etc.:

12.2.1 1.00 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	0.15	301.00	45.15
0114	Beldar	day	0.15	247.00	37.05
	TOTAL				82.20
	Add Water Charges @ 1%				0.82
	TOTAL				83.02
	Add CPOH @ 15%				12.45
	Cost of 3 metre				95.47
	Cost of 1 metre				31.82
	Say				31.80

12.2.2 0.80 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	0.12	301.00	36.12
0114	Beldar	day	0.12	247.00	29.64
	TOTAL				65.76
	Add Water Charges @ 1%				0.66
	TOTAL				66.42
	Add CPOH @ 15%				9.96
	Cost of 3 metre				76.38
	Cost of 1 metre				25.46
	Say				25.45

12.2.3 0.63 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3 metres periphery Assuming a hole of 10dmx5dm area of the hole 50dm2 and the perimeter of the hole 3 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	0.12	301.00	36.12
0114	Beldar	day	0.12	247.00	29.64
	TOTAL				65.76
	Add Water Charges @ 1%				0.66
	TOTAL 6				6.42
	Add CPOH @ 15%				9.96
	Cost of 3 metre				76.38
	Cost of 1 metre				25.46
	Say				25.45

12.3 Extra for circular cutting in C.G.S. sheet roofing for making opening of area exceeding 40 square decimeter:

12.3.1 1.00 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre diameter</i>				
	<i>Perimetre of 10 nos 10x22/7x0.5 = 15.71 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	3.13	301.00	942.13
0114	Beldar	day	6.26	247.00	1,546.22
	TOTAL				2,488.35
	Add Water Charges @ 1%				24.88
	TOTAL				2,513.23
	Add CPOH @ 15%				376.98
	Cost of 15.71 metre				2,890.21
	Cost of 1 metre				183.97
	Say				183.95

12.3.2 0.80 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre diameter</i>				
	<i>Perimetre of 10 nos 10x22/7x0.5 = 15.71 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	5.00	247.00	1,235.00
	TOTAL				1,987.50
	Add Water Charges @ 1%				19.88
	TOTAL				2,007.38
	Add CPOH @ 15%				301.11
	Cost of 15.71 metre				2,308.49
	Cost of 1 metre				146.94
	Say				146.95

12.3.3 0.63 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5 metre diameter</i>				
	<i>Perimetre of 10 nos 10x22/7x0.5 = 15.71 metre</i>				
0102	LABOUR:				
	Blacksmith 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	5.00	247.00	1,235.00
	TOTAL				1,987.50
	Add Water Charges @ 1%				19.88
	TOTAL				2,007.38
	Add CPOH @ 15%				301.11
	Cost of 15.71 metre				2,308.49
	Cost of 1 metre				146.94
	Say				146.95

12.4.1 0.80 mm thick with zinc coating not less than 275 gm/ m2

12.4.2 0.63 mm thick with zinc coating not less than 275 gm/ m2

643

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 nos	28.00	35.00	98.00
	25mmx6mm (There are 14 joints)				
1211	G.I. plain washer for seam bolts	100 nos	28.00	32.00	8.96
1208	Bitumen washer	100 nos	28.00	25.00	7.00
9999	Carriage of seam bolts and washers	L.S.	1.82	1.49	2.71
9999	Sundries	L.S.	13.52	1.49	20.14
	LABOUR:				
0130	Mistry	day	0.40	301.00	120.40
0102	Blacksmith 1 st class	day	1.20	301.00	361.20
0103	Blacksmith 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	2.40	247.00	592.80
	TOTAL				3,665.77
	Add Water Charges @ 1%				36.66
	TOTAL				3,702.43
	Add CPOH @ 15%				555.36
	Cost of 10.35 metre				4,257.79
	Cost of 1 metre				411.38
	Say				411.40

12.5 Providing valleys of 90 cm wide overall in plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete:
12.5.1 1.60 mm thick with zinc coating not less than 350 gm/ m2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.325m</i>				
	MATERIAL:				
	G.I. plain sheets 2.5x0.9m				
	4 Nos. @ 29.95kg/sheet =119.80kg.+				
	Add 2% wastage = 2.40kg.				
	Total = 122.20 kg. or 1.222 quintal				
0992	Galvanised steel plain sheets	quintal	1.222	4,750.00	5,804.50
2302	Carriage of G.I.sheet and accessories	tonne	0.12	77.87	9.34
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 nos	12.00	35.00	42.00
	25mmx6mm (There are 14 joints)				
1211	G.I. plain washer for seam bolts	100 nos	12.00	32.00	3.84
1208	Bitumen washer	100 nos	12.00	25.00	3.00
9999	Carriage of bolts, nuts and washers	L.S.	0.91	1.49	1.36
9999	Sundries	L.S.	13.52	1.49	20.14
	LABOUR:				
0130	Mistry	day	0.40	301.00	120.40
0102	Blacksmith 1 st class	day	1.20	301.00	361.20
0103	Blacksmith 2nd class	day	0.80	273.00	218.40
0114	Beldar	day	2.40	247.00	592.80
	TOTAL				7,176.98
	Add Water Charges @ 1%				71.77
	TOTAL				7,248.75
	Add CPOH @ 15%				1,087.31
	Cost of 9.325 metre				8,336.06
	Cost of 1 metre				893.95
	Say				893.95

12.6 Providing and fixing of 40 cm overall width plain G.S. sheet fixed with polymer coated J, or L hooks, bolts and nuts, G.I. limpet and bitumen washer complete, bent to shape and fixed in wall with cement mortar 1:3 (1cement : 3 coarse sand).

12.6.1 1.00 mm thick with zinc coating not less than 275 gm/ m²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 12.125 metres</i> Consider a length of flashing 12.125 metres MATERIAL: G.I. plain sheet 1.25mm thick 3.2x0.75m 2 Nos. @ 20.64 kg. =41.28 kg.+ Add 2% wastage = 0.83 kg Total = 42.11 kg. or 0.4211 quintal				
0992	Galvanised steel plain sheets	quintal	0.4211	4,750.00	2,000.22
2302	Carriage of G.I.sheet and accessories	tonne	0.041	77.87	3.19
0222	Seam bolts and nuts 6 mm dia and 25 mm long (taking 2 bolts per joints)	10 nos	6.00	35.00	21.00
1207	G.I. Limpet washer	100 nos	6.00	35.00	2.10
1208	Bitumen washer	100 nos	6.00	25.00	1.50
9999	Carriage of G.I. seam bolts and washers	L.S.	0.39	1.49	0.58
9999	Sundries	L.S.	10.79	1.49	16.08
	LABOUR:				
0130	Mistry	day	0.50	301.00	150.50
0102	Blacksmith 1 st class	day	1.48	301.00	445.48
0103	Blacksmith 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	3.00	247.00	741.00
	TOTAL				3,654.65
	Add Water Charges @ 1%				36.55
	TOTAL				3,691.20
	Add CPOH @ 15%				553.68
	Cost of 12.125 metre				4,244.88
	Cost of 1 metre				350.09
	Say				350.10

12.7 Providing and fixing 15 cm wide, 45 cm overall semi circular plain G.S. sheet gutter with iron brackets 40x3 mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete.

12.7.1 0.80 mm thick with zinc coating not less than 275 gm/ m²

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.04m</i> 0.80mm thick with zinc coating not less than 275gm/m ² Consider a length of 9.04m Sheet used = 2.5x0.90m = 2 Nos. Wt. = 2x15.82=31.64 kg. Total = 0.3164quintal				
0992	Galvanised steel plain sheets	quintal	0.3164	4,750.00	1,502.90
2302	Carriage of G.I.sheet and accessories	tonne	0.0316	77.87	2.46
1008	Flats up to 10 mm in thickness	quintal	0.0749	4,200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	20.00	20.00	40.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	10.00	300.00
1210	G.I. plain washer thin	100 nos	70.00	30.00	21.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	5.33	1.49	7.94
	LABOUR:				
0102	Blacksmith 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	12.61	1.49	18.79
0130	Mistry	day	0.28	301.00	84.28
0102	Blacksmith 1 st class	day	0.84	301.00	252.84
0112	Carpenter 2nd class	day	0.62	273.00	169.26
0114	Beldar	day	1.68	247.00	414.96
	TOTAL				3,417.08
	Add Water Charges @ 1%				34.17
	TOTAL				3,451.25
	Add CPOH @ 15%				517.69
	Cost of 9.04 metre				3,968.94
	Cost of 1 metre				439.04
	Say				439.05

12.7.2 0.63 mm thick with zinc coating not less than 275 gm/ m2

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.04m</i>				
	0.63mm thick with zinc coating not less than 275gm/m2				
	Consider a length of 9.04m				
	Sheet used = 2.5x0.90m = 2 Nos.				
	Wt. = 2x11.82=23.64 kg.				
	Total = 0.2364quintal				
0992	Galvanised steel plain sheets	quintal	0.2364	4,750.00	1,122.90
2302	Carriage of G.I.sheet and accessories	tonne	0.0236	77.87	1.84
1008	Flats up to 10 mm in thickness	quintal	0.0749	4,200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	20.00	20.00	40.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	10.00	300.00
1210	G.I. plain washer thin	100 nos	70.00	30.00	21.00
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of G.I. seam bolts and washers	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	5.33	1.49	7.94
	LABOUR:				
0102	Blacksmith 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	12.61	1.49	18.79
0130	Mistry	day	0.28	301.00	84.28
0102	Blacksmith 1 st class	day	0.84	301.00	252.84
0112	Carpenter 2nd class	day	0.62	273.00	169.26
0114	Beldar	day	1.68	247.00	414.96
	TOTAL				3,036.46
	Add Water Charges @ 1%				30.36
	TOTAL				3,066.82
	Add CPOH @ 15%				460.02
	Cost of 9.04 metre				3,526.84
	Cost of 1 metre				390.14
	Say				390.15

12.8 Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (as per IS : 14871) roofing up to any pitch and fixing with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0223	<i>Details of cost for 216.14 sqm area of roof upto 60° pitch</i> Upto 60 degree pitch Consider a shed of 20x10 metres. (External dimensions of plinth). Area of roof- 20.2x10.70m = 216.14 sqm. MATERIAL: Sheets used = 2x20 Nos. x3.00 mx 1.05m= 126.00sqm+ 2x20Nos.x2.50mx1.05m=105.00sqm. Total = 231.00sqm. + Add 3% wastage = 6.93 Total = 237.93sqm Non - Asbestos fibre (high impact poly propylene reinforced) cement corrugated sheet 6 mm thick 2x20x0.42147= 1.68588 + 2x20x0.35123= 1.4049 = 3.0908+ Add 3 % wastage = 0.092 = 3.1835 Say 3.184 t	sqm	237.93	250.00	59,482.50
2273	Carriage of A.C.sheet and accessories	tonne	3.184	77.87	247.94
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	476.00	90.00	4,284.00
1208	Bitumen washer	100 nos	476.00	25.00	119.00
1209	G.I. plain washer thick	100 nos	476.00	32.00	152.32
9999	Carriage of bolts and washers	L.S.	8.06	1.49	12.01
9999	Sundries	L.S.	39.52	1.49	58.88
	LABOUR:				
0130	Mistry	day	2.34	301.00	704.34
0112	Carpenter 2nd class	day	9.34	273.00	2,549.82
0114	Beldar	day	9.34	247.00	2,306.98
	TOTAL				69,917.79
	Add Water Charges @ 1%				699.18
	TOTAL				70,616.97
	Add CPOH @ 15%				10,592.55
	Cost of 216.14 sqm				81,209.52
	Cost of 1 sqm				375.73
	Say				375.75

12.9 Extra for straight cutting in non- asbestos polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter for chimney stacks, skylights etc.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0111	<i>Details of cost for 3 metres periphery</i> Area of cutting 0.9mx0.6m=0.54sqm. Perimeter = 3 metres LABOUR: Carpenter 1 st class	day	0.12	301.00	36.12

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	0.12	247.00	29.64
	TOTAL				65.76
	Add Water Charges @ 1%				0.66
	TOTAL				66.42
	Add CPOH @ 15%				9.96
	Cost of 3 metre				76.38
	Cost of 1 metre				25.46
	Say				25.45

12.10 Extra for circular cutting in non-asbestos polypropylene reinforced cement corrugated / semi-corrugated 6 mm thick sheet roofing for making openings of area exceeding 40 square decimeter.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4 holes of 0.72 metre diameter i.e. 9.05 metre periphery</i>				
0111	LABOUR:				
	Carpenter 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				548.00
	Add Water Charges @ 1%				5.48
	TOTAL				553.48
	Add CPOH @ 15%				83.02
	Cost of 9.05 metre				636.50
	Cost of 1 metre				70.33
	Say				70.35

12.11 Extra for providing and fixing wind ties of 40x6 mm flat iron section.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 30 metres</i>				
	Extra for providing and fixing wind ties of 40x6mm flat iron section.				
	M.S. flat 40x6mm = 30 metres+				
	wastage @ 5% = 1.5 metres				
	= 31.50 metres @ 1.9 kg per metre				
	= 59.85 kg. = 0.5985 quintal				
1008	Flats up to 10 mm in thickness	quintal	0.5985	4,200.00	2,513.70
2205	Carriage of steel	tonne	0.06	77.87	4.67
9999	Sundries	L.S.	20.67	1.49	30.80
0102	Blacksmith 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
	TOTAL				2,823.17
	Add Water Charges @ 1%				28.23
	TOTAL				2,851.40
	Add CPOH @ 15%				427.71
	Cost of 30 metre				3,279.11
	Cost of 1 metre				109.30
	Say				109.30

12.12 Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.

12.12.1 Corrugated serrated adjustable ridges

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for length of ridge 20.2 metres</i>				
	One piece corrugated serrated adjustable ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre				
	MATERIAL:				
	Ridge piece required each of 1.22mm length = 19Nos. +				
	Add 5% wastage = 0.95 No.				
	19.95 Nos x 1.22 = 24.339 metre				
0225	Non - Asbestos fibre (high impact poly propylene reinforced) cement corrugate serrated adjustable ridge	metre	24.339	200.00	4,867.80
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.49	20.14
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0130	Mistry	day	0.14	301.00	42.14
0112	Carpenter 2nd class	day	0.55	273.00	150.15
0114	Beldar	day	1.64	247.00	405.08
	TOTAL				5,495.38
	Add Water Charges @ 1%				54.95
	TOTAL				5,550.33
	Add CPOH @ 15%				832.55
	Cost of 20.2 metre				6,382.88
	Cost of 1 metre				315.98
	Say				316.00

12.12.2 Plain wing adjustable ridges

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for length of ridge 20.2 metres</i>				
	Plain wing adjustable ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre				
	MATERIAL:				
	Ridge piece required each of 1.22m length = 19 Nos. +				
	Add 5% wastage = 0.95 No.				
	19.95 nos x 1.22 = 24.339 metre				
0226	Non - Asbestos fibre (high impact poly propylene reinforced) cement plain wing adjustable ridge	metre	24.339	200.00	4,867.80
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.49	20.14
9999	Sundries	L.S.	6.76	1.49	10.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0130	LABOUR: Mistry	day	0.14	301.00	42.14
0112	Carpenter 2nd class	day	0.55	273.00	150.15
0114	Beldar	day	1.64	247.00	405.08
	TOTAL				5,495.38
	Add Water Charges @ 1%				54.95
	TOTAL				5,550.33
	Add CPOH @ 15%				832.55
	Cost of 20.2 metre				6,382.88
	Cost of 1 metre				315.98
	Say				316.00

12.12.3 Close fitting adjustable ridges

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0224	<i>Details of cost for length of ridge 20.2 metres</i> Close fitting adjustable ridges Consider a shed of 20x10m (external dimensions at plinth). Length of ridges 20.2 metre No. of ridge pairs required, of length 1.22m each = 22.00 Nos. + Add 5% wastage =1.10 Nos. Total = 23.10 Nos.x 1.22= 28.182 metre Non - Asbestos fibre (high impact poly propylene reinforced) cement close fitting adjustable ridge	metre	28.182	200.00	5,636.40
9999	Carriage	L.S.	16.12	1.49	24.02
9999	Sundries	L.S.	7.15	1.49	10.65
	LABOUR:				
0130	Mistry	day	0.14	301.00	42.14
0112	Carpenter 2nd class	day	0.55	273.00	150.15
0114	Beldar	day	1.64	247.00	405.08
	TOTAL				6,268.44
	Add Water Charges @ 1%				62.68
	TOTAL				6,331.12
	Add CPOH @ 15%				949.67
	Cost of 20.2 metre				7,280.79
	Cost of 1 metre				360.44
	Say				360.45

12.12.4 Unserrated adjustable hips

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for a shed with hip as 20.2 metres</i> Unserrated adjustable hips Consider a shed with hip as 20.2 metres No. of hi pieces required = 19 pairs Length of each pair 1.22 metres Add 5 % wastage = 0.95 pairs Total = 19.95 pairs x 1.22 = 24.339 metre				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0227	Non - Asbestos fibre (high impact poly propylene reinforced) cement unserrated adjustable ridge for hips	metre	24.339	280.00	6,814.92
9999	Carriage	L.S.	6.76	1.49	10.07
9999	Sundries	L.S.	6.63	1.49	9.88
	LABOUR:				
0130	Mistry	day	0.14	301.00	42.14
0112	Carpenter 2nd class	day	0.55	273.00	150.15
0114	Beldar	day	1.64	247.00	405.08
	TOTAL				7,432.24
	Add Water Charges @ 1%				74.32
	TOTAL				7,506.56
	Add CPOH @ 15%				1,125.98
	Cost of 20.2 metre				8,632.54
	Cost of 1 metre				427.35
	Say				427.35

12.13 Providing and fixing non-asbestos fibre cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete:

12.13.1 Corrugated apron pieces

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for shed of 20.2 metres completed length</i>				
	MATERIAL:				
	Corrugated apron pieces of 1.12 metre length = 20 Nos.+				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.12=23.52 metre				
0228	Non - Asbestos fibre (high impact poly propylene reinforced) cement corrugated apron piece	metre	23.52	200.00	4,704.00
9999	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.49	4.84
9999	Sundries	L.S.	3.25	1.49	4.84
	LABOUR:				
0130	Mistry	day	0.07	301.00	21.07
0112	Carpenter 2nd class	day	0.28	273.00	76.44
0114	Beldar	day	0.82	247.00	202.54
	TOTAL				5,013.73
	Add Water Charges @ 1%				50.14
	TOTAL				5,063.87
	Add CPOH @ 15%				759.58
	Cost of 20.2 metre				5,823.45
	Cost of 1 metre				288.29
	Say				288.30

12.13.2 Eave's filler pieces

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for eaves filler for a shed of 20.2 metres complete length</i>				
	MATERIAL:				
	Eaves filler pieces of 1.016 metres length = 20 Nos.+				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos				
0229	Non - Asbestos fibre (high impact poly propylene reinforced) cement eaves filler piece	each	21.00	150.00	3,150.00
9999	(The eaves filler pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.49	4.84
9999	Sundries	L.S.	3.25	1.49	4.84
	LABOUR:				
0130	Mistry	day	0.07	301.00	21.07
0112	Carpenter 2nd class	day	0.28	273.00	76.44
0114	Beldar	day	0.82	247.00	202.54
	TOTAL				3,459.73
	Add Water Charges @ 1%				34.60
	TOTAL				3,494.33
	Add CPOH @ 15%				524.15
	Cost of 20.2 metre				4,018.48
	Cost of 1 metre				198.93
	Say				198.95

12.13.3 North light curves

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for North light curve 20.2 metres long complete length</i>				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0230	Non - Asbestos fibre (high impact poly propylene reinforced) cement north light curves	metre	21.336	310.00	6,614.16
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	40.00	90.00	360.00
1209	G.I. plain washer thick	100 nos	40.00	32.00	12.80
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.49	14.72
9999	Sundries	L.S.	6.24	1.49	9.30
	LABOUR:				
0130	Mistry	day	0.10	301.00	30.10
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				7,379.98
	Add Water Charges @ 1%				73.80
	TOTAL				7,453.78
	Add CPOH @ 15%				1,118.07
	Cost of 20.2 metre				8,571.85
	Cost of 1 metre				424.35
	Say				424.35

12.13.4 Ventilator curves

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for ventilator curve 20.2 metres long complete length</i>				
	MATERIAL:				
	North light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos.x 1.016 = 21.336 metre				
0231	Non - Asbestos fibre (high impact poly propylene reinforced) cement ventilator curves	each	21.336	390.00	8,321.04
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	40.00	90.00	360.00
1209	G.I. plain washer thick	100 nos	40.00	32.00	12.80
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of hooks, nuts, washers and curves	L.S.	9.88	1.49	14.72
9999	Sundries	L.S.	6.24	1.49	9.30
	LABOUR:				
0130	Mistry	day	0.10	301.00	30.10
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				9,086.86
	Add Water Charges @ 1%				90.87
	TOTAL				9,177.73
	Add CPOH @ 15%				1,376.66
	Cost of 20.2 metre				10,554.39
	Cost of 1 metre				522.49
	Say				522.50

12.13.5 Barge boards

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 9.70 metres</i>				
	MATERIAL:				
	Barge boards 2.50metres = 4 Nos. x 2.50 = 10.00 metre				
	Add 5% wastage = 0.50 metre.				
	Total = 10.50 metre				
0232	Non - Asbestos fibre (high impact poly propylene reinforced) cement barge boards 6 mm thick	metre	10.50	395.00	4,147.50
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 nos	5.00	35.00	17.50
1211	G.I. plain washer for seam bolts	100 nos	10.00	32.00	3.20
1208	Bitumen washer	100 nos	5.00	25.00	1.25
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.36	1.49	13.95
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0130	Mistry	day	0.04	301.00	12.04
0112	Carpenter 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	0.40	247.00	98.80
	TOTAL				4,320.69
	Add Water Charges @ 1%				43.21
	TOTAL				4,363.90
	Add CPOH @ 15%				654.58
	Cost of 9.7 metre				5,018.48
	Cost of 1 metre				517.37
	Say				517.35

12.13.6 Ridge finials

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 pair of ridge finials</i>				
	MATERIAL:				
	Ridge finials = 1pair				
	Add 5% wastage = 0.05pair.				
	= 1.05 pair				
0233	Non - Asbestos fibre (high impact poly propylene reinforced) cement ridge finial	pair	1.05	140.00	147.00
9999	Carriage, sundries, fixing charge including providing and fixing, seam bolts and nuts, with G.I. and bitumen washers.	L.S.	10.79	1.49	16.08
	TOTAL				163.08
	Add Water Charges @ 1%				1.63
	TOTAL				164.71
	Add CPOH @ 15%				24.71
	Cost of 1 pair				189.42
	Say				189.40

12.13.7 Special north light curves

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for special north light ventilator curve 20.2 metres long complete length</i>				
	MATERIAL:				
	Special north light curves of 1.016 metres nominal length = 20 Nos. +				
	Add 5% wastage = 1.0 No.				
	Total = 21 Nos				
0234	Non - Asbestos fibre (high impact poly propylene reinforced) cement special north light curves	each	21.00	514.00	10,794.00
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	40.00	90.00	360.00
1209	G.I. plain washer thick	100 nos	40.00	32.00	12.80
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.49	14.72
9999	Sundries	L.S.	6.24	1.49	9.30
	LABOUR:				
0130	Mistry	day	0.10	301.00	30.10
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				11,559.82
	Add Water Charges @ 1%				115.60
	TOTAL				11,675.42
	Add CPOH @ 15%				1,751.31
	Cost of 20 nos				13,426.73
	Cost of each				671.34
	Say				671.35

12.13.8 S type louvers

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 8.74 metre</i>				
	MATERIAL:				
	S type louvers = 5 Nos.+				
	Add 5% wastage = 0.25 Nos.				
	Total = 5.25 Nos				
0235	Non - Asbestos fibre (high impact poly propylene reinforced) cement S type louvers	each	5.25	250.00	1,312.50
9999	Carriage	L.S.	10.79	1.49	16.08
1031	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	each	6.00	20.00	120.00
1032	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	each	6.00	15.00	90.00
1208	Bitumen washer	100 nos	18.00	25.00	4.50
1210	G.I. plain washer thin	100 nos	36.00	30.00	10.80
9999	Carriage of bolts, nuts and washers	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	13.39	1.49	19.95
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
0102	Blacksmith 1 st class	day	0.12	301.00	36.12
	TOTAL				2,162.02
	Add Water Charges @ 1%				21.62
	TOTAL				2,183.64
	Add CPOH @ 15%				327.55
	Cost of 8.74 metre				2,511.19
	Cost of 1 metre				287.32
	Say				287.30

12.14 Providing flat iron brackets 50x3 mm size with necessary bolts, nuts and washers etc. for fixing asbestos cement/G.S. sheets gutters with purlins.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20 metres</i>				
	MATERIAL:				
	Flat 50x3 mm size				
1008	Flats up to 10 mm in thickness	quintal	0.1163	4,200.00	488.46
1025	Mild steel bolts 6 mm dia and 25 mm long with hexagonal head	10 nos	38.00	25.00	95.00
1210	G.I. plain washer thin	100 nos	19.00	30.00	5.70
9999	Sundries	L.S.	1.04	1.49	1.55
0102	Blacksmith 1 st class	day	0.38	301.00	114.38
0114	Beldar	day	0.38	247.00	93.86
	TOTAL				798.95
	Add Water Charges @ 1%				7.99
	TOTAL				806.94
	Add CPOH @ 15%				121.04
	Cost of 20 metre				927.98
	Cost of 1 metre				46.40
	Say				46.40

12.15 Painting top of roofs with bitumen of approved quality @ 17 kg per 10 sqm impregnated with a coat of coarse sand at 60 cum per 10 sqm including cleaning the slab surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete:

12.15.1 With residual type petroleum bitumen of grade VG-10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0309	Bitumen 80/100	tonne	0.017	37,000.00	629.00
	Paving bitumen of grade VG-10 of approved quality				
0771	Kerosene oil	litre	1.22	30.00	36.60
0370	Coal (steam)	quintal	0.035	400.00	14.00
2211	Carriage of tar / bitumen	tonne	0.017	87.60	1.49
0982	Coarse sand (zone III)	cum	0.06	1,120.00	67.20
2203	Carriage of coarse sand	cum	0.06	87.60	5.26
	LABOUR:				
0114	Beldar	day	0.38	247.00	93.86
	(for cleaning the surface, applying kerosene oil, heating materials and carrying the hot tar over the roof)				
0131	Painter	day	0.15	273.00	40.95
9999	Sundries (Brushes and T and P)	L.S.	13.52	1.49	20.14
	TOTAL				908.50
	Add Water Charges @ 1%				9.09
	TOTAL				917.59
	Add CPOH @ 15%				137.64
	Cost of 10 sqm				1,055.23
	Cost of 1 sqm				105.52
	Say				105.50

12.16 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat:

12.16.1 With common burnt clay F.P.S. (non modular) brick tile of class designation 10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Mud Phuska = 1.048 cum. +				
	Wastage 20% = 0.209				
	= 1.257 cum				
0811	Mud (dry)	cum	1.257	50.00	62.85
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.263	301.10	79.19
	Bhusa 0.263x35 = 9.20 +				
	5% wastage = 0.46				
	= 9.66 kg Say 0.1 quintal				
0308	Bhusa	quintal	0.10	375.00	37.50
9999	Cowdung	L.S.	5.33	1.49	7.94

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Mud mortar for gobri leaping	L.S.	8.06	1.49	12.01
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.49	4.07
	Tile bricks 22.9x11.4x4.4cm of designation 100				
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.00	3,100.00	1,178.00
2207	Carriage of brick tiles	1000 Nos	380.00	140.16	53.26
	Cement mortar for grouting 1:3 (1 cement 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	3,631.95	221.55
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	25.00	0.15
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.30	273.00	354.90
0114	Beldar	day	3.75	247.00	926.25
0101	Bhisti	day	1.10	260.00	286.00
	TOTAL				3,233.74
	Add Water Charges @ 1%				32.34
	TOTAL				3,266.08
	Add CPOH @ 15%				489.91
	Cost of 10 sqm				3,755.99
	Cost of 1 sqm				375.60
	Say				375.60

12.17 10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar with bhusha @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow-dung) and covered with machine moulded tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.

12.17.1 with machine moulded common burnt clay F.P.S. (non modular) brick tiles of class designation - 12.50, conforming to IS - 2690

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Mud Phuska = 1.048 cum.				
	Wastage 20% = 0.209				
	Total = 1.257 cum				
0811	Mud (dry)	cum	1.257	50.00	62.85
	Mud mortar for 25 mm thick plaster over phuska				
3.18	Rate as per Item Number 3.18 of SH: Mortars	cum	0.263	301.10	79.19
	Bhusa 0.263x35 = 9.20				
	5% wastage = 0.46				
	= 9.66 kg. Say= 0.10 quintal.				
0308	Bhusa	quintal	0.10	375.00	37.50
9999	Cowdung	L.S.	5.33	1.49	7.94
9999	Mud mortar for gobri leaping	L.S.	8.06	1.49	12.01
9999	Carriage of bhusa and cowdung	L.S.	2.73	1.49	4.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7904	Machine moulded common burnt clay tile bricks of class designation 12.5	1000 Nos	380.00	3,700.00	1,406.00
2207	Carriage of brick tiles	1000 Nos	380.00	140.16	53.26
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.061	3,631.95	221.55
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.006	25.00	0.15
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.30	273.00	354.90
0114	Beldar	day	3.75	247.00	926.25
0101	Bhisti	day	1.10	260.00	286.00
	TOTAL				3,461.74
	Add Water Charges @ 1%				34.62
	TOTAL				3,496.36
	Add CPOH @ 15%				524.45
	Cost of 10 sqm				4,020.81
	Cost of 1 sqm				402.08
	Say				402.10

12.18 Extra for every additional 1 cm thickness of mud phaska.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	for 10 cm thickness.				
	Mud Phuska = 1.048 cum. +				
	Add wastage 20% = 0.209				
	Total = 1.257				
	Quantity for 1cm thickness $1.257/10=0.1257$				
	Say 0.13 cum				
0811	Mud (dry)	cum	0.13	50.00	6.50
0114	Beldar	day	0.07	247.00	17.29
0101	Bhisti	day	0.04	260.00	10.40
9999	Labour for leaping and carriage to roof	L.S.	26.91	1.49	40.10
	TOTAL				74.29
	Add Water Charges @ 1%				0.74
	TOTAL				75.03
	Add CPOH @ 15%				11.25
	Cost of 10 sqm				86.28
	Cost of 1 sqm				8.63
	Say				8.65

12.19 Providing and laying brick tiles over mumty roofs grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat:

12.19.1 With common burnt clay F.P.S. (non modular) brick tiles class designation 10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1984	Common burnt clay F.P.S. bricks tile class designation 10	1000 Nos	380.00	3,100.00	1,178.00
2207	Carriage of brick tiles	1000 Nos	380.00	140.16	53.26
3.3	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.179	3,631.95	650.12
1213	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.005	25.00	0.12
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	0.81	273.00	221.13
0115	Coolie	day	1.08	247.00	266.76
0101	Bhisti	day	0.27	260.00	70.20
9999	Sundries	L.S.	1.82	1.49	2.71
	TOTAL				2,442.30
	Add Water Charges @ 1%				24.42
	TOTAL				2,466.72
	Add CPOH @ 15%				370.01
	Cost of 10 sqm				2,836.73
	Cost of 1 sqm				283.67
	Say				283.65

12.20 Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
7266	Pressed clay tiles 20mm thick 250x250 mm size	1000 Nos	160.00	12,150.00	1,944.00
2207	Carriage of brick tiles	1000 Nos	160.00	140.16	22.43
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.037	3,485.40	128.96
	Integral water proofing compound 2% by weight of cement				
1213	Water proofing materials	kilogram	0.01	25.00	0.25
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.60	301.00	180.60
0114	Beldar	day	2.60	247.00	642.20
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				3,718.54
	Add Water Charges @ 1%				37.19
	TOTAL				3,755.73
	Add CPOH @ 15%				563.36
	Cost of 10 sqm				4,319.09
	Cost of 1 sqm				431.91
	Say				431.90

12.21 Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :

12.21.1 In 75x75 mm deep chase

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metre</i>				
	MATERIAL:				
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0836	1,050.00	87.78
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0836	87.60	7.32
0982	Coarse sand (zone III)	cum	0.0418	1,120.00	46.82
2203	Carriage of coarse sand	cum	0.0418	87.60	3.66
0367	Portland Cement	tonne	0.03	5,000.00	150.00
2209	Carriage of cement	tonne	0.03	77.87	2.34
0114	Beldar	day	0.085	247.00	21.00
0115	Coolie	day	0.056	247.00	13.83
0101	Bhisti	day	0.025	260.00	6.50
0123	Mason (brick layer) 1 st class	day	0.005	301.00	1.50
0124	Mason (brick layer) 2nd class	day	0.005	273.00	1.36
0128	Mate	day	0.0037	260.00	0.96
9999	Hire and running charge of mechanical mixer	L.S.	2.47	1.49	3.68
9999	Sundries	L.S.	1.30	1.49	1.94
0123	Mason (brick layer) 1 st class	day	0.15	301.00	45.15
0124	Mason (brick layer) 2nd class	day	0.15	273.00	40.95
9999	Sundries	L.S.	5.07	1.49	7.55
0123	Mason (brick layer) 1 st class	day	0.25	301.00	75.25
0124	Mason (brick layer) 2nd class	day	0.25	273.00	68.25
0114	Beldar	day	1.00	247.00	247.00
9999	Carriage	L.S.	8.06	1.49	12.01
	Cement mortar for grouting 1:3 (1 cement: 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.009	3,631.95	32.69
0155	Mason (average)	day	0.081	287.00	23.25
0115	Coolie	day	0.101	247.00	24.95
0101	Bhisti	day	0.033	260.00	8.58
9999	Hire and running charge of mechanical mixer	L.S.	1.69	1.49	2.52
9999	Sundries	L.S.	1.43	1.49	2.13
	TOTAL				938.97
	Add Water Charges @ 1%				9.39
	TOTAL				948.36
	Add CPOH @ 15%				142.25
	Cost of 10 metre				1,090.61
	Cost of 1 metre				109.06
	Say				109.05

12.22 Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges, making and finishing the outlet complete.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 no.</i>				
	MATERIAL:				
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0067	1,050.00	7.04
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0022	1,050.00	2.31
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0089	87.60	0.78
0982	Coarse sand (zone III)	cum	0.0044	1,120.00	4.93
2203	Carriage of coarse sand	cum	0.0044	87.60	0.39
0367	Portland Cement	tonne	0.0032	5,000.00	16.00
2209	Carriage of cement	tonne	0.0032	77.87	0.25
0114	Beldar	day	0.009	247.00	2.22
0115	Coolie	day	0.006	247.00	1.48
0101	Bhisti	day	0.0027	260.00	0.70
0123	Mason (brick layer) 1 st class	day	0.0005	301.00	0.15
0124	Mason (brick layer) 2nd class	day	0.0005	273.00	0.14
0128	Mate	day	0.0004	260.00	0.10
9999	Hire and running charge of mechanical mixer	L.S.	0.26	1.49	0.39
9999	Sundries	L.S.	0.13	1.49	0.19
3002	Polyvinyle chloride sheet 400 micron thick	sqm	1.00	31.00	31.00
	Cement mortar 1:3 (1 cement :3 coarse sand)				
3.8	Rate as per Item Number 3.8 of SH: Mortars	cum	0.0041	4,145.55	17.00
0155	Mason (average)	day	0.0235	287.00	6.74
0115	Coolie	day	0.0235	247.00	5.80
0101	Bhisti	day	0.0078	260.00	2.03
9999	Sundries	L.S.	0.39	1.49	0.58
0367	Portland Cement	tonne	0.0006	5,000.00	3.00
2209	Carriage of cement	tonne	0.0006	77.87	0.05
0155	Mason (average)	day	0.008	287.00	2.30
0115	Coolie	day	0.008	247.00	1.98
9999	Rounding of edges and making outlet	L.S.	0.26	1.49	0.39
9999	Sundries	L.S.	13.52	1.49	20.14
	TOTAL				128.08
	Add Water Charges @ 1%				1.28
	TOTAL				129.36
	Add CPOH @ 15%				19.40
	Cost of each				148.76
	Say				148.75

12.23 Providing sand stone slab for roofing and laying them in cement mortar 1:4 (1 cement : 4 coarse sand) over wooden karries or RCC battens or structural steel sections (Karries or battens or structural steel sections to be paid separately), including pointing the ceiling joints with cement mortar 1:3 (1 cement : 3 fine sand) complete:

12.23.1 Red sand stone slab

12.23.1.1 40 to 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1174	MATERIAL: Red sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	11.00	165.00	1,815.00
	including wastage @ 10% = 11 sqm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.27	77.87	98.89
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	3,485.40	33.11
	Cement mortar for grouting 1:3(1 cement : 3 fine sand)				
3.3	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3,631.95	27.24
	LABOUR:				
0155	Mason (average)	day	1.52	287.00	436.24
0100	Bandhani	day	1.82	260.00	473.20
0115	Coolie	day	1.52	247.00	375.44
0101	Bhisti	day	0.30	260.00	78.00
9999	Sundries	L.S.	16.12	1.49	24.02
	TOTAL				3,361.14
	Add Water Charges @ 1%				33.61
	TOTAL				3,394.75
	Add CPOH @ 15%				509.21
	Cost of 10 sqm				3,903.96
	Cost of 1 sqm				390.40
	Say				390.40

12.23.2 White sand stone slab

12.23.2.1 40 to 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
1175	MATERIAL: White sand stone slab 45 mm to 50 mm thick (un-dressed)	sqm	11.00	185.00	2,035.00
	including wastage @ 10% = 11sqm				
2216	Carriage of stone blocks white & red sand stone & kota stone slab	tonne	1.27	77.87	98.89
	Cement mortar 1:4 (1 cement: 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.0095	3,485.40	33.11
0155	Mason (average)	day	1.52	287.00	436.24
0100	Bandhani	day	1.82	260.00	473.20
0115	Coolie	day	1.52	247.00	375.44
0101	Bhisti	day	0.30	260.00	78.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	16.12	1.49	24.02
3.3	Cement mortar for grouting 1:3(1 cement: 3 fine sand)				
	Rate as per Item Number 3.3 of SH: Mortars	cum	0.0075	3,631.95	27.24
	TOTAL				3,581.14
	Add Water Charges @ 1%				35.81
	TOTAL				3,616.95
	Add CPOH @ 15%				542.54
	Cost of 10 sqm				4,159.49
	Cost of 1 sqm				415.95
	Say				415.95

12.24 Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):

12.24.1 Natural colour insulating board

12.24.1.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0332	Natural colour insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	270.00	2,970.00
9999	Carriage of material	L.S.	17.55	1.49	26.15
9999	Nails	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				4,375.33
	Add Water Charges @ 1%				43.75
	TOTAL				4,419.08
	Add CPOH @ 15%				662.86
	Cost of 10 sqm				5,081.94
	Cost of 1 sqm				508.19
	Say				508.20

12.24.2 White face insulating board

12.24.2.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0328	White face insulating board:12 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	360.00	3,960.00
9999	Carriage of material	L.S.	17.55	1.49	26.15
9999	Nails	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				5,365.33
	Add Water Charges @ 1%				53.65

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				5,418.98
	Add CPOH @ 15%				812.85
	Cost of 10 sqm				6,231.83
	Cost of 1 sqm				623.18
	Say				623.20

12.24.3 Flame retardant face insulating board

12.24.3.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0336	Flame retardant face insulating board: 12 mm thick	sqm	11.00	315.00	3,465.00
	including 10% wastage = 11.00 sqm				
9999	Carriage of material	L.S.	17.55	1.49	26.15
9999	Nails	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				4,870.33
	Add Water Charges @ 1%				48.70
	TOTAL				4,919.03
	Add CPOH @ 15%				737.85
	Cost of 10 sqm				5,656.88
	Cost of 1 sqm				565.69
	Say				565.70

12.25 Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS : 3087 marked, in ceiling with necessary nails etc. complete (frame work to be paid separately) :

12.25.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
0341	Flat pressed 3 layer particle board (medium density) Grade 1, 12 mm thick	sqm	11.00	325.00	3,575.00
	including 10% wastage = 11.00 sqm				
9999	Carriage	L.S.	14.95	1.49	22.28
9999	Nails	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				4,976.46
	Add Water Charges @ 1%				49.76
	TOTAL				5,026.22
	Add CPOH @ 15%				753.93
	Cost of 10 sqm				5,780.15
	Cost of 1 sqm				578.02
	Say				578.00

12.26 Providing and fixing plain Multipurpose Cement board (High Pressure steam cured) as per IS : 14862, with suitable screws for fibre cement board in ceiling etc. complete (frame work to be paid separately) :

12.26.1 6 mm thick cement board

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
0236	MATERIAL: Non - Asbestos multi purpose fibre (high impact poly propylene reinforced) cement board 6 mm thick including 10% wastage = 11.00 sqm	sqm	11.00	182.00	2,002.00
9999	Carriage	L.S.	14.95	1.49	22.28
9999	Nails	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				3,403.46
	Add Water Charges @ 1%				34.03
	TOTAL				3,437.49
	Add CPOH @ 15%				515.62
	Cost of 10 sqm				3,953.11
	Cost of 1 sqm				395.31
	Say				395.30

12.27 Extra for Circular cutting including wastages in ceiling with:

12.27.1 2nd class teak wood planks 20 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 holes of 0.5m dia each (15.71m)</i>				
	MATERIAL: 0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$ Area = $10 \times (22/7) \times 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ + Wastage @ 10% = 0.19 sqm. Total = 2.15 sqm x 20 mm = 0.043 cum = 43 cudm				
1190	Second class teak wood in planks	10 cudm	43.00	720.00	3,096.00
2204	Carriage of timber	cum	0.043	100.11	4.30
0637	Bright finished or black enameled mild steel screws 40 mm	100 nos	31.00	50.00	15.50
	LABOUR:				
0111	Carpenter 1 st class	day	2.65	301.00	797.65
0112	Carpenter 2nd class	day	0.145	273.00	39.58
0114	Beldar	day	2.79	247.00	689.13
9999	Scaffolding	L.S.	7.80	1.49	11.62
9999	Sundries	L.S.	14.69	1.49	21.89
	TOTAL				4,675.67
	Add Water Charges @ 1%				46.76
	TOTAL				4,722.43
	Add CPOH @ 15%				708.36
	Cost of 15.71 metre				5,430.79
	Cost of 1 metre				345.69
	Say				345.70

12.27.2 Natural colour insulating board

12.27.2.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0332	Natural colour insulating board:12 mm thick	sqm	2.15	270.00	580.50
9999	Carriage	L.S.	3.38	1.49	5.04
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				2,241.58
	Add Water Charges @ 1%				22.42
	TOTAL				2,264.00
	Add CPOH @ 15%				339.60
	Cost of 15.71 metre				2,603.60
	Cost of 1 metre				165.73
	Say				165.75

12.27.3 White face insulating board

12.27.3.1 12 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0328	White face insulating board:12 mm thick	sqm	2.15	360.00	774.00
9999	Carriage	L.S.	3.38	1.49	5.04
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				2,435.08
	Add Water Charges @ 1%				24.35
	TOTAL				2,459.43
	Add CPOH @ 15%				368.91
	Cost of 15.71 metre				2,828.34
	Cost of 1 metre				180.03
	Say				180.05

12.27.4 Flame retardant face insulating board

12.27.4.1 12mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0336	Flame retardant face insulating board: 12 mm thick	sqm	2.15	315.00	677.25
9999	Carriage	L.S.	3.38	1.49	5.04
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				2,338.33
	Add Water Charges @ 1%				23.38
	TOTAL				2,361.71
	Add CPOH @ 15%				354.26
	Cost of 15.71 metre				2,715.97
	Cost of 1 metre				172.88
	Say				172.90

12.27.5 Standard quality hard board sheet

12.27.5.1 3 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0994	Standard quality hard board sheet 3 mm thick	sqm	2.15	110.00	236.50
9999	Carriage	L.S.	2.73	1.49	4.07
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				1,896.61
	Add Water Charges @ 1%				18.97
	TOTAL				1,915.58
	Add CPOH @ 15%				287.34
	Cost of 15.71 metre				2,202.92
	Cost of 1 metre				140.22
	Say				140.20

12.27.4 Flame retardant face insulating board**12.27.4.1 12mm thick**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0336	Flame retardant face insulating board: mm thick	12 sqm	2.15	315.00	677.25
9999	Carriage	L.S.	3.38	1.49	5.04
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				2,338.33
	Add Water Charges @ 1%				23.38
	TOTAL				2,361.71
	Add CPOH @ 15%				354.26
	Cost of 15.71 metre				2,715.97
	Cost of 1 metre				172.88
	Say				172.90

12.27.5 Standard quality hard board sheet**12.27.5.1 3 mm thick**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0994	Standard quality hard board sheet 3 mm thick	sqm	2.15	110.00	236.50
9999	Carriage	L.S.	2.73	1.49	4.07
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				1,896.61
	Add Water Charges @ 1%				18.97
	TOTAL				1,915.58
	Add CPOH @ 15%				287.34
	Cost of 15.71 metre				2,202.92
	Cost of 1 metre				140.22
	Say				140.20

12.27.5.2 4.5 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 15.71 metre</i>				
	MATERIAL:				
	0.5 metre dia. each = $10 \times 22/7 \times 0.5 = 15.71\text{m}$				
	Area = $10 \times (22/7) / 4 \times 0.5 \times 0.5 = 1.96\text{sqm.}$ +				
	Wastage @ 10% = 0.19 sqm.				
	Total = 2.15 sqm				
0996	Standard quality hard board sheet 4.5 mm thick	sqm	2.15	130.00	279.50
9999	Carriage	L.S.	2.86	1.49	4.26
9999	Nails	L.S.	5.33	1.49	7.94
	LABOUR:				
0111	Carpenter 1 st class	day	0.49	301.00	147.49
0114	Beldar	day	0.39	247.00	96.33
9999	Scaffolding	L.S.	6.11	1.49	9.10
9999	Sundries	L.S.	6.11	1.49	9.10
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.50	247.00	617.50
9999	Scaffolding	L.S.	10.79	1.49	16.08
	TOTAL				1,939.80
	Add Water Charges @ 1%				19.40
	TOTAL				1,959.20
	Add CPOH @ 15%				293.88
	Cost of 15.71 metre				2,253.08
	Cost of 1 metre				143.42
	Say				143.40

12.28 Extra for providing and fixing ceiling to curved surfaces in narrow widths.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	301.00	301.00
0112	Carpenter 2nd class	day	1.00	273.00	273.00
0114	Beldar	day	2.00	247.00	494.00
	TOTAL				1,068.00
	Add Water Charges @ 1%				10.68
	TOTAL				1,078.68
	Add CPOH @ 15%				161.80
	Cost of 10 sqm				1,240.48
	Cost of 1 sqm				124.05
	Say				124.05

12.29 Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners, cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended

from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
7267	MATERIAL: Plain ceiling tiles (BWP type phenol formaldehyde synthetic resin bonded) (600x600x12 mm) Qty. including 10% wastage = 11.00 sqm. i.e. (11/0.36).= 30.56 Nos	each	30.56	120.00	3,667.20
9999	Carriage of tiles	L.S.	14.82	1.49	22.08
9999	C.P.Brass screws	L.S.	26.91	1.49	40.10
	LABOUR:				
0111	Carpenter 1 st class	day	2.50	301.00	752.50
0114	Beldar	day	2.00	247.00	494.00
9999	Scaffolding	L.S.	31.07	1.49	46.29
9999	Sundries	L.S.	31.07	1.49	46.29
	TOTAL				5,068.46
	Add Water Charges @ 1%				50.68
	TOTAL				5,119.14
	Add CPOH @ 15%				767.87
	Cost of 10 sqm				5,887.01
	Cost of 1 sqm				588.70
	Say				588.70

12.30 Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain or design particle board ceiling tiles.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
7385	Difference in cost of 3 mm thick translucent white acrylic plastic sheet	sqm	10.00	570.00	5,700.00
7386	12 mm thick particle board ceiling tile	sqm	-10.00	260.00	-2,600.00
	TOTAL				3,100.00
	Add Water Charges @ 1%				31.00
	TOTAL				3,131.00
	Add CPOH @ 15%				469.65
	Cost of 10 sqm				3,600.65
	Cost of 1 sqm				360.07
	Say				360.05

12.31 Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) :

12.31.1 Flat surfaces

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4.00x2.5=10sqm</i>				
	Wooden strips of 1 st class kail wood				
	72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				
1196	First class kail wood in planks	10 cudm	47.52	300.00	1,425.60
2204	Carriage of timber	cum	0.0475	100.11	4.76
1219	Wire nails	kilogram	0.75	52.00	39.00
	required for fixing the laths to frame work				
	including breakage and wastage of nails				
	Rabbit wire mesh required for				
	reinforcement =2.5x4 = 10.00sqm.+				
	Add 2%wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.20	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side				
	of the laths-				
	2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+				
	Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.76	4.00	879.04
2308	Carriage of plaster of paris	tonne	0.22	77.87	17.13
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	1.60	301.00	481.60
0114	Beldar day	day	1.60	247.00	395.00
	For doing plaster of paris over wooden				
	strips.				
0122	Mason (for plaster of paris work) 1 st class	day	3.23	301.00	972.23
0114	Beldar	day	3.23	247.00	797.81
0101	Bhisti	day	0.54	260.00	140.40
9999	Scaffolding	L.S.	83.98	1.49	125.13
9999	Sundries	L.S.	53.82	1.49	80.19
	TOTAL				5,821.16
	Add Water Charges @ 1%				58.21
	TOTAL				5,879.37
	Add CPOH @ 15%				881.91
	Cost of 10 sqm				6,761.28
	Cost of 1 sqm				676.13
	Say				676.15

12.31.2 Curved surfaces

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 4.00x2.5=10sqm</i>				
	MATERIAL:				
	Wooden strips of 1 st class kail wood				
	72x40x0.25x0.06 = 43.20 cudm. +				
	Add 10% wastage = 4.32 cudm.				
	Total = 47.52 cudm				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1196	First class kail wood in planks	10 cudm	47.52	300.00	1,425.60
2204	Carriage of timber	cum	0.0475	100.11	4.76
1219	Wire nails	kilogram	0.75	52.00	39.00
	required for fixing the laths to frame work including breakage and wastage of nails				
	Rabbit wire mesh required for reinforcement =2.5x4 = 10.00sqm.+				
	Add 2%wastage =0.20 sqm.				
	Total = 10.2 sqm				
1220	Wire mesh (rabbit)	sqm	10.20	45.00	459.00
	Plaster of paris -				
	2.5x4.0x10x1121/1000= 112.10 kg.				
	Add for plaster of paris joining into the side of the laths-				
	2.5x4.0x4.0032x1121 = 44.87 kg.				
	= 156.97+				
	Add 40% wastage = 62.79				
	Total = 219.76 kg				
0869	Plaster of Paris	kilogram	219.76	4.00	879.04
2308	Carriage of plaster of paris	tonne	0.22	77.87	17.13
9999	Carriage of wiremesh and nails etc.	L.S.	2.73	1.49	4.07
	LABOUR:				
0111	Carpenter 1 st class	day	1.60	301.00	481.60
0114	Beldar	day	1.60	247.00	395.20
0122	Mason (for plaster of paris work) 1 st class	day	3.23	301.00	972.23
0114	Beldar	day	3.23	247.00	797.81
0101	Bhisti	day	0.54	260.00	140.40
9999	Scaffolding	L.S.	83.98	1.49	125.13
9999	Sundries	L.S.	53.82	1.49	80.19
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0122	Mason (for plaster of paris work) 1st class	day	1.00	301.00	301.00
0114	Beldar	day	1.50	247.00	370.50
	TOTAL				6,643.16
	Add Water Charges @ 1%				66.43
	TOTAL				6,709.59
	Add CPOH @ 15%				1,006.44
	Cost of 10 sqm				7,716.03
	Cost of 1 sqm				771.60
	Say				771.60

12.32 Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
0869	Plaster of Paris	kilogram	109.88	4.00	439.52
2308	Carriage of plaster of paris	tonne	0.11	77.87	8.57
	LABOUR:				
0122	Mason (for plaster of paris work) 1 st class	day	2.00	301.00	602.00
0114	Beldar	day	2.00	247.00	494.00
0101	Bhisti	day	0.25	260.00	65.00
9999	Scaffolding and sundries	L.S.	13.52	1.49	20.14

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	TOTAL				1,629.23
	Add Water Charges @ 1%				16.29
	TOTAL				1,645.52
	Add CPOH @ 15%				246.83
	Cost of 10 sqm				1,892.35
	Cost of 1 sqm				189.24
	Say				189.25

12.33 Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	<i>Details of cost for 10 sqm/metre height</i> Scaffolding	L.S.	13.52	1.49	20.14
	LABOUR:				
0122	Mason (for plaster of paris work) 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	1.00	247.00	247.00
0101	Bhisti	day	0.25	260.00	65.00
	TOTAL				633.14
	Add Water Charges @ 1%				6.33
	TOTAL				639.47
	Add CPOH @ 15%				95.92
	Cost of 10 sqm per metre height				735.39
	Cost of 1 sqm per metre height				73.54
	Say				73.55

12.34 Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24 kg/m³, 50 mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire and mesh, for top most ceiling of building.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm				
7232	Resin Bonded Glass wool 24 kg/ m ³ : 50 mm thick	sqm	11.00	204.00	2,244.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	104.00	1.49	154.96
9999	GI chicken mesh 12.5mm x 24 SWG	L.S.	351.00	1.49	522.99
	LABOUR:				
0111	Carpenter 1 st class	day	1.00	301.00	301.00
0114	Beldar	day	2.00	247.00	494.00
	TOTAL				3,716.95
	Add Water Charges @ 1%				37.17
	TOTAL				3,754.12
	Add CPOH @ 15%				563.12
	Cost of 10 sqm				4,317.24
	Cost of 1 sqm				431.72
	Say				431.70

12.35 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183, density 16 kg/m³, 50 mm thick, wrapped in 200 G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> Area for 10.00sqm. (Finished surface) = 10.00sqm.+ Add 10% for overlappings & wastage = 1.00sqm. Total = 11.00sqm				
7231	Resin Bonded Glass wool 16 kg/ m ³ : 50 mm thick	sqm	11.00	145.00	1,595.00
9999	Sundries including GI wire 20 SWG and polythene bags 200gms	L.S.	52.00	1.49	77.48
0111	LABOUR: Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
	TOTAL				1,946.48
	Add Water Charges @ 1%				19.46
	TOTAL				1,965.94
	Add CPOH @ 15%				294.89
	Cost of 10 sqm				2,260.83
	Cost of 1 sqm				226.08
	Say				226.10

12.36 Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-Charge.

12.36.1 With Type N - Normal 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i> Cost of materials: Expanded Polystyrene 1x10=10.00sqm. + Add wastage 10%= 1.00sqm. Total = 11.00sqm				
7090	Expanded polystyrene type N- Normal	sqm	11.00	130.00	1,430.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.25	26.00	6.50
9999	Sundries	L.S.	13.00	1.49	19.37
0111	LABOUR: Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
	TOTAL			1,729.87	
	Add Water Charges @ 1%				17.30
	TOTAL				1,747.17
	Add CPOH @ 15%				262.08
	Cost of 10 sqm				2,009.25
	Cost of 1 sqm				200.93
	Say				200.90

12.36.2 With Type SE - Self Extinguishing type 50 mm thick

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Expanded Polystyrene 1x10=10.00sqm. +				
	Add wastage 10%= 1.00sqm.				
	Total = 11.00sqm				
7091	Expanded polystyrene type - SE	sqm	11.00	155.00	1,705.00
0314	Bitumen hot sealing compound : grade A	kilogram	0.25	26.00	6.50
9999	Sundries	L.S.	13.00	1.49	19.37
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
	TOTAL				2,004.87
	Add Water Charges @ 1%				20.05
	TOTAL				2,024.92
	Add CPOH @ 15%				303.74
	Cost of 10 sqm				2,328.66
	Cost of 1 sqm				232.87
	Say				232.85

12.37 Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand).

12.37.1 Stone ware spout

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 stone ware spout of 60cm long</i>				
	MATERIAL:				
3004	Stone ware spouts 100 mm dia 60 cm long	each	10.00	33.00	330.00
9999	Carriage	L.S.	13.52	1.49	20.14
9999	Mortar	L.S.	13.52	1.49	20.14
	Labour for fixing and placing in position				
0124	Mason (brick layer) 2nd class	day	0.40	273.00	109.20
0114	Beldar	day	0.40	247.00	98.80
9999	Sundries	L.S.	5.33	1.49	7.94
	TOTAL				586.22
	Add Water Charges @ 1%				5.86
	TOTAL				592.08
	Add CPOH @ 15%				88.81
	Cost of 10 nos				680.89
	Cost of each				68.09
	Say				68.10

12.38 Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :

12.38.1 100 mm diameter

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
1331	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	5.00	17.00	85.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Sundries	L.S.	7.15	1.49	10.65
9999	Carriage of bat clamps	L.S.	2.47	1.49	3.68
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	301.00	37.62
0124	Mason (brick layer) 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	0.50	247.00	123.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1,050.00	3.46
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1,050.00	1.16
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	87.60	0.39
0982	Coarse sand (zone III)	cum	0.0022	1,120.00	2.46
2203	Carriage of coarse sand	cum	0.0022	87.60	0.19
0367	Portland Cement	tonne	0.0016	5,000.00	8.00
2209	Carriage of cement	tonne	0.0016	77.87	0.12
0114	Beldar	day	0.0045	247.00	1.11
0115	Coolie	day	0.0032	247.00	0.79
0101	Bhisti	day	0.0014	260.00	0.36
0123	Mason (brick layer) 1 st class	day	0.0003	301.00	0.09
0124	Mason (brick layer) 2nd class	day	0.0003	273.00	0.08
0128	Mate	day	0.0002	260.00	0.05
9999	Hire charges of machine etc.	L.S.	0.26	1.49	0.39
9999	Sundries	L.S.	0.13	1.49	0.19
9999	Sundries	L.S.	0.13	1.49	0.19
	TOTAL				484.23
	Add Water Charges @ 1%				4.84
	TOTAL				489.07
	Add CPOH @ 15%				73.36
	Cost of 5 nos				562.43
	Cost of each				112.49
	Say				112.50

12.38.2 150 mm diameter

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
0886	Standard holder bat clamps for sand cast iron or cast iron pipes 150 mm dia	each	5.00	25.00	125.00
	C.C. block 5x0.1x0.1x0.1 = 0.005 cum				
9999	Carriage of bat clamps	L.S.	2.47	1.49	3.68
9999	Sundries	L.S.	7.15	1.49	10.65
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	301.00	37.62
0124	Mason (brick layer) 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	0.50	247.00	123.50
0295	Stone Aggregate (Single size) : 20 mm nominal size	cum	0.0033	1,050.00	3.46
0297	Stone Aggregate (Single size) : 10 mm nominal size	cum	0.0011	1,050.00	1.16
2202	Carriage of stone aggregate below 40 mm nominal size	cum	0.0044	87.60	0.39

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0982	Coarse sand (zone III)	cum	0.0022	1,120.00	2.46
2203	Carriage of coarse sand	cum	0.0022	87.60	0.19
0367	Portland Cement	tonne	0.0016	5,000.00	8.00
2209	Carriage of cement	tonne	0.0016	77.87	0.12
0114	Beldar	day	0.0045	247.00	1.11
0115	Coolie	day	0.0032	247.00	0.79
0101	Bhisti	day	0.0014	260.00	0.36
0123	Mason (brick layer) 1 st class	day	0.0003	301.00	0.09
0124	Mason (brick layer) 2nd class	day	0.0003	273.00	0.08
0128	Mate	day	0.0002	260.00	0.05
9999	Hire charges of machine etc.	L.S.	0.26	1.49	0.39
9999	Sundries	L.S.	0.13	1.49	0.19
9999	Sundries	L.S.	0.13	1.49	0.19
	TOTAL				524.23
	Add Water Charges @ 1%				5.24
	TOTAL				529.47
	Add CPOH @ 15%				79.42
	Cost of 5 nos				608.89
	Cost of each				121.78
	Say				121.80

12.39 Providing lead caulked joints to sand cast iron rain water pipes and fittings:

12.39.1 100 mm dia pipe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 joint</i>				
	MATERIAL:				
0865	Pig lead	kilogram	0.98	90.00	88.20
1001	Spun yarn	kilogram	0.11	40.00	4.40
9999	Kerosene oil fuel and sundries	L.S.	13.52	1.49	20.14
9999	Carriage of material	L.S.	1.43	1.49	2.13
	LABOUR:				
0116	Fitter (grade 1)	day	0.06	301.00	18.06
0117	Assistant Fitter or 2nd class Fitter	day	0.06	273.00	16.38
0114	Beldar	day	0.12	247.00	29.64
	TOTAL				178.95
	Add Water Charges @ 1%				1.79
	TOTAL				180.74
	Add CPOH @ 15%				27.11
	Cost of each Joint				207.85
	Say				207.85

12.39.2 150 mm dia pipe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 joint</i>				
	MATERIAL:				
0865	Pig lead	kilogram	1.48	90.00	133.20
1001	Spun yarn	kilogram	0.17	40.00	6.80
9999	Kerosene oil fuel and sundries	L.S.	13.52	1.49	20.14
9999	Carriage of material	L.S.	2.73	1.49	4.07

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	LABOUR:				
0116	Fitter (grade 1)	day	0.08	301.00	24.08
0117	Assistant Fitter or 2nd class Fitter	day	0.08	273.00	21.84
0114	Beldar	day	0.15	247.00	37.05
	TOTAL				247.18
	Add Water Charges @ 1%				2.47
	TOTAL				249.65
	Add CPOH @ 15%				37.45
	Cost of each				287.10
	Say				287.10

12.40 Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately).

12.40.1 Sand cast iron plain shoes

12.40.1.1 150 mm diameter

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
0966	Sand Cast iron plain shoe 150 mm dia	each	1.00	325.00	325.00
9999	Carriage, fixing and mortar	L.S.	17.55	1.49	26.15
	TOTAL				351.15
	Add Water Charges @ 1%				3.51
	TOTAL				354.66
	Add CPOH @ 15%				53.20
	Cost of each				407.86
	Say				407.85

12.41 Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.

12.41.1 75 mm diameter

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6 metre</i>				
7188	uPVC pipes (working pressure 4 kg / cm ²)	metre	6.00	67.00	402.00
	Single socketed pipe 75 mm dia				
7190	uPVC pipes (working pressure 4 kg / cm ²)	each	1.00	16.00	16.00
	Rubber (Seal) Ring 75 mm dia				
9999	Carriage of material	L.S.	13.52	1.49	20.14
9999	Adhesive, and sundries etc.	L.S.	6.76	1.49	10.07
	LABOUR:				
0116	Fitter (grade 1)	day	0.19	301.00	57.19
0114	Beldar	day	0.37	247.00	91.39
0100	Bandhani	day	0.08	260.00	20.80
9999	Scaffolding	L.S.	18.59	1.49	27.70
	TOTAL				645.29
	Add Water Charges @ 1%				6.45
	TOTAL				651.74
	Add CPOH @ 15%				97.76
	Cost of 6 metre				749.50
	Cost of 1 metre				124.92
	Say				124.90

12.41.2 110 mm diameter

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 6 metre</i>				
7189	uPVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia	metre	6.00	129.00	774.00
7191	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	1.00	20.00	20.00
9999	Carriage of material	L.S.	17.55	1.49	26.15
9999	Adhesive, and sundries etc.	L.S.	8.06	1.49	12.01
	LABOUR:				
0116	Fitter (grade 1)	day	0.23	301.00	69.23
0114	Beldar	day	0.45	247.00	111.15
0100	Bandhani	day	0.11	260.00	28.60
9999	Scaffolding	L.S.	18.59	1.49	27.70
	TOTAL				1,068.84
	Add Water Charges @ 1%				10.69
	TOTAL				1,079.53
	Add CPOH @ 15%				161.93
	Cost of 6 metre				1,241.46
	Cost of 1 metre				206.91
	Say				206.90

12.42 Providing and fixing on wall face unplasticised-PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.

12.42.1 Coupler

12.42.1.1 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7192	UPVC coupler for UPVC drainage pipes 75 mm	each	1.00	34.00	34.00
7190	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia	each	2.00	16.00	32.00
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	LABOUR: Carriage and fixing charges.	L.S.	9.36	1.49	13.95
	TOTAL				84.02
	Add Water Charges @ 1%				0.84
	TOTAL				84.86
	Add CPOH @ 15%				12.73
	Cost of each				97.59
	Say				97.60

12.42.1.2 110 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7193	UPVC coupler for UPVC drainage pipes 110 mm	each	1.00	52.00	52.00
7191	uPVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia	each	2.00	20.00	40.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	10.79	1.49	16.08
	TOTAL				112.15
	Add Water Charges @ 1%				1.12
	TOTAL				113.27
	Add CPOH @ 15%				16.99
	Cost of each				130.26
	Say				130.25

12.42.2 Single pushfit Coupler

12.42.2.1 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7194	UPVC pushfit coupler (single) 75 mm thick	each	1.00	50.00	50.00
7190	uPVC pipes (working pressure 4 kg / cm 2)	each	2.00	16.00	32.00
	Rubber (Seal) Ring 75 mm dia				
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	9.36	1.49	13.95
	TOTAL				100.02
	Add Water Charges @ 1%				1.00
	TOTAL				101.02
	Add CPOH @ 15%				15.15
	Cost of each				116.17
	Say				116.15

12.42.2.2 110 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7195	UPVC pushfit coupler (single) 110 mm thick	each	1.00	81.00	81.00
7191	uPVC pipes (working pressure 4 kg / cm 2)	each	2.00	20.00	40.00
	Rubber (Seal) Ring 110 mm dia				
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	10.79	1.49	16.08
	TOTAL				141.15
	Add Water Charges @ 1%				1.41
	TOTAL				142.56
	Add CPOH @ 15%				21.38
	Cost of each				163.94
	Say				163.95

12.42.3 Single tee with door

12.42.3.1 75x75x75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
7198	UPVC single equal Tee (with door) 75x75x75 mm	each	1.00	115.00	115.00
7190	uPVC pipes (working pressure 4 kg / cm 2)	each	3.00	16.00	48.00
	Rubber (Seal) Ring 75 mm dia				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	1.49	16.03
	TOTAL				179.03
	Add Water Charges @ 1%				1.79
	TOTAL				180.82
	Add CPOH @ 15%				27.12
	Cost of each				207.94
	Say				207.95

12.42.3.2 110x110x110 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7199	UPVC single equal Tee (with door) 110x110x110 mm	each	1.00	180.00	180.00
7191	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 110 mm dia	each	3.00	20.00	60.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	1.49	20.07
	TOTAL				260.07
	Add Water Charges @ 1%				2.60
	TOTAL				262.67
	Add CPOH @ 15%				39.40
	Cost of each				302.07
	Say				302.05

12.42.4 Single tee without door

12.42.4.1 75x75x75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7196	UPVC single equal Tee (without door) 75x75x75 mm	each	1.00	95.00	95.00
7190	uPVC pipes (working pressure 4 kg / cm 2) Rubber (Seal) Ring 75 mm dia	each	3.00	16.00	48.00
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	10.76	1.49	16.03
	TOTAL				159.03
	Add Water Charges @ 1%				1.59
	TOTAL				160.62
	Add CPOH @ 15%				24.09
	Cost of each				184.71
	Say				184.70

12.42.4.2 110x110x110 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 tee</i>				
	MATERIAL:				
7197	UPVC single equal Tee (without door) 110x110x110 mm	each	1.00	128.00	128.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
7191	uPVC pipes (working pressure 4 kg / cm 2)	each	3.00	20.00	60.00
	Rubber (Seal) Ring 110 mm dia				
9999	Adhesive, Carriage of material rubber washer etc. including fixing charges	L.S.	13.47	1.49	20.07
	TOTAL				208.07
	Add Water Charges @ 1%				2.08
	TOTAL				210.15
	Add CPOH @ 15%				31.52
	Cost of each				241.67
	Say				241.65

12.42.5 Bend 87.5°

12.42.5.1 75 mm bend

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 coupler</i>				
7208	uPVC bend 87.5° 75 mm bend	each	1.00	56.00	56.00
7190	uPVC pipes (working pressure 4 kg / cm 2)	each	1.00	16.00	16.00
	Rubber (Seal) Ring 75 mm dia				
9999	Adesive and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	9.36	1.49	13.95
	TOTAL				90.02
	Add Water Charges @ 1%				0.90
	TOTAL				90.92
	Add CPOH @ 15%				13.64
	Cost of each				104.56
	Say				104.55

12.42.5.2 110 mm bend

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 bend</i>				
7209	uPVC bend 87.5° 110 mm bend	each	1.00	95.00	95.00
7191	uPVC pipes (working pressure 4 kg/ cm 2)	each	1.00	20.00	20.00
	Rubber (Seal) Ring 110 mm dia				
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	10.79	1.49	16.08
	TOTAL				135.15
	Add Water Charges @ 1%				1.35
	TOTAL				136.50
	Add CPOH @ 15%				20.47
	Cost of each				156.97
	Say				156.95

12.42.6 Shoe (Plain)

12.42.6.1 75 mm Shoe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
7212	UPVC plain shoe 75 mm bend	each	1.00	107.00	107.00
7190	uPVC pipes (working pressure 4 kg / cm 2)	each	1.00	16.00	16.00
	Rubber (Seal) Ring 75 mm dia				

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Adhesive, and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	9.36	1.49	13.95
	TOTAL				141.02
	Add Water Charges @ 1%				1.41
	TOTAL				142.43
	Add CPOH @ 15%				21.36
	Cost of each				163.79
	Say				163.80

12.42.6.2 110 mm Shoe

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 shoe</i>				
7213	UPVC plain shoe 110 mm bend	each	1.00	207.00	207.00
7191	uPVC pipes (working pressure 4 kg / cm ²)	each	1.00	20.00	20.00
	Rubber (Seal) Ring 110 mm dia				
9999	Adhesive and sundries etc.	L.S.	2.73	1.49	4.07
9999	Carriage and fixing charges.	L.S.	10.79	1.49	16.08
	TOTAL				247.15
	Add Water Charges @ 1%				2.47
	TOTAL				249.62
	Add CPOH @ 15%				37.44
	Cost of each				287.06
	Say				287.05

12.43 Providing and fixing unplasticised-PVC pipe clips of approved design to unplasticised-PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.

12.43.1 75 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
7214	UPVC pipe clip 75 mm bend	each	5.00	16.00	80.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.49	3.68
0870	Plug	each	10.00	8.00	80.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	301.00	37.62
0124	Mason (brick layer) 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	7.15	1.49	10.65
9999	Sundries	L.S.	0.91	1.49	1.36
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.90	1.49	5.81
	TOTAL				547.37
	Add Water Charges @ 1%				5.47
	TOTAL				552.84
	Add CPOH @ 15%				82.93
	Cost of 5 nos				635.77
	Cost of each				127.15
	Say				127.15

12.43.2 110 mm

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 5 nos</i>				
	MATERIAL:				
7215	UPVC pipe clip 110 mm bend	each	5.00	31.00	155.00
9999	Carriage of U-PVC pipe clips	L.S.	2.47	1.49	3.68
0870	Plug	each	10.00	8.00	80.00
	LABOUR:				
0116	Fitter (grade 1)	day	0.125	301.00	37.62
0124	Mason (brick layer) 2nd class	day	0.75	273.00	204.75
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	7.15	1.49	10.65
9999	Sundries	L.S.	0.91	1.49	1.36
9999	Sundries cement mortar 1:4 (1 Cement: 4 Coarse sand)	L.S.	3.90	1.49	5.81
	TOTAL				622.37
	Add Water Charges @ 1%				6.22
	TOTAL				628.59
	Add CPOH @ 15%				94.29
	Cost of 5 nos				722.88
	Cost of each				144.58
	Say				144.60

12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 grating</i>				
7187	C.I. grating 150 mm dia, weighing not less than 440 gm	each	1.00	22.00	22.00
9999	Carriage of material and fixing charges.	L.S.	4.16	1.49	6.20
	TOTAL				28.20
	Add Water Charges @ 1%				0.28
	TOTAL				28.48
	Add CPOH @ 15%				4.27
	Cost of each				32.75
	Say				32.75

12.45 Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with

the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :

12.45.1 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10.8x9.6m = 103.68sqm</i>				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7009	12.5 mm thick tapered edge gypsum plain board	sqm	108.86	160.00	17,417.60
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.14	39.00	9,287.46
7011	Galvanised Steel perimetre Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1,129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3,810.24
	Strap hanger				
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1,171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	216.00	20.00	432.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 nos	1,000.00	56.00	560.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	140.00	177.80
7021	Primer (for gypsum board)	litre	18.66	85.00	1,586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
	12 mm dia 40 mm long with 6 mm dia bolt				
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.30	1.49	1,202.88
9999	Carriage of material etc.	L.S.	447.20	1.49	666.33
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	273.00	8,491.39
0114	Beldar	day	31.104	247.00	7,682.69
0131	Painter	day	10.368	273.00	2,830.46
	TOTAL				61,718.49
	Add Water Charges @ 1%				617.18
	TOTAL				62,335.67
	Add CPOH @ 15%				9,350.35
	Cost of 103.68 sqm				71,686.02
	Cost of 1 sqm				691.42
	Say				691.40

12.45.2 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i> <i>Details cost for 103.68 sqm</i> MATERIAL: Gypsum board 12.5mm thick = 103.68 sqm.+ Add wastage @ 5% = 5.18sqm. Total = 108.86 sqm				
7030	12.5 mm thick tapered edge gypsum fire resistant board	sqm	108.86	237.00	25,799.82
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.14	39.00	9,287.46
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1,129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3,810.24
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1,171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	216.00	20.00	432.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 nos	1,000.00	56.00	560.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	140.00	177.80
7021	Primer (for gypsum board)	litre	18.66	85.00	1,586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries like rawl plug scaffolding etc.	L.S.	807.30	1.49	1,202.88
9999	Carriage of material etc.	L.S.	447.20	1.49	666.33
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	273.00	8,491.39
0114	Beldar	day	31.104	247.00	7,682.69
0131	Painter	day	10.37	273.00	2,831.01
	TOTAL				70,101.26
	Add Water Charges @ 1%				701.01
	TOTAL				70,802.27
	Add CPOH @ 15%				10,620.34
	Cost of 103.68 sqm				81,422.61
	Cost of 1 sqm				785.33
	Say				785.35

12.45.3 12.5 mm thick tapered edge gypsum moisture resistant board

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i>				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7031	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	108.86	271.00	29,501.06
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.14	39.00	9,287.46
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1,129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3,810.24
7013	Galvanised Steel angle hanger (Ceiling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1,171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	216.00	20.00	432.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 nos	1,000.00	56.00	560.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	140.00	177.80
7021	Primer (for gypsum board)	litre	18.66	85.00	1,586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.30	1.49	1,202.88
9999	Carriage of material etc.	L.S.	447.20	1.49	666.33
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	273.00	8,491.39
0114	Beldar	day	31.104	247.00	7,682.69
0131	Painter	day	10.368	273.00	2,830.46
	TOTAL				73,801.95
	Add Water Charges @ 1%				738.02
	TOTAL				74,539.97
	Add CPOH @ 15%				11,181.00
	Cost of 103.68 sqm				85,720.97
	Cost of 1 sqm				826.78
	Say				826.80

12.45.4 Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer-in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 103.68 sqm</i>				
	MATERIAL:				
	Gypsum board 12.5mm thick = 103.68 sqm.+				
	Add wastage @ 5% = 5.18sqm.				
	Total = 108.86 sqm				
7028	12.5 mm thick Fully Perforated gypsum board	sqm	108.86	927.00	1,00,913.22
7010	Galvanised Steel ceiling section (size 80x26x0.50 mm)	metre	238.14	39.00	9,287.46
7011	Galvanised Steel perimeter Channel (Size 20x27x30x0.50 mm)	metre	41.84	27.00	1,129.68
7012	Galvanised Steel intermediate Channel (Size 15x45x15x0.90 mm)	metre	90.72	42.00	3,810.24
7013	Galvanised Steel angle hanger (Celling angle) (Size 25x10x0.50 mm)	metre	10.80	19.00	205.20
7014	Galvanised Steel connecting clips (2.64 mm dia and 230 mm long GI wire)	each	189.00	6.20	1,171.80
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	216.00	20.00	432.00
7015	Galvanised Steel soffit cleat (Size 27x37x25x0.60 mm)	each	72.00	4.00	288.00
7020	All drive screws (for gypsum board)	100 nos	1,000.00	56.00	560.00
7016	Joint filler	kilogram	22.81	22.00	501.82
7017	Joint finisher	kilogram	34.21	24.00	821.04
7018	Joint tape roll	roll	1.27	140.00	177.80
7021	Primer (for gypsum board)	litre	18.66	85.00	1,586.10
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries like rawl plugs, scaffolding etc.	L.S.	807.30	1.49	1,202.88
9999	Carriage of material etc.	L.S.	447.20	1.49	666.33
	LABOUR:				
0112	Carpenter 2nd class	day	31.104	273.00	8,491.39
0114	Beldar	day	31.104	247.00	7,682.69
0131	Painter	day	10.368	273.00	2,830.46
	TOTAL				1,45,214.11
	Add Water Charges @ 1%				1,452.14
	TOTAL				1,46,666.25
	Add CPOH @ 15%				21,999.94
	Cost of 103.68 sqm				1,68,666.19
	Cost of 1 sqm				1,626.80
	Say				1,626.80

12.46 Providing and fixing to the inlet mouth of rain water pipe PTMT (an Engineering Thermoplastic) grating square (Slit) 150 mm square with a height of 8mm and weighing not less than 100 gms.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 grating</i>				
	MATERIAL:				
7857	P.T.M.T. Grating square slit 150 mm	each	1.00	77.00	77.00
9999	Carriage of material and fixing charges.	L.S.	4.16	1.49	6.20
	TOTAL				83.20
	Add Water Charges @ 1%				0.83
	TOTAL				84.03
	Add CPOH @ 15%				12.60
	Cost of each				96.63
	Say				96.65

12.47 Providing & fixing UV stabilised fibre glass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8 mm dia G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.

12.47.1 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm</i>				
	MATERIAL:				
8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	240.408	538.00	1,29,339.50
9999	Carriage of sheet	L.S.	104.00	1.49	154.96
	G.I. Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight				
	Breadth is 5.1 metre				
	No. of bolts in one lap $5.1/0.3 = 17$ Nos.				
	$2 \times 26(\text{laps}) \times 17 \text{ Nos.} = 884 \text{ Nos}$				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	884.00	20.00	1,768.00
	G.I., J or L hooks 8mm dia.				
	(No. of purlins to be used 5 on either side) $2 \times 5 \times 27$				
	(No. of sheets) $\times 23$ Nos. of bolts in each sheet = 810 Nos				
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	810.00	90.00	7,290.00
1207	G.I. Limpet washer (total of seam and J bolts)	100 nos	1,694.00	35.00	592.90
	$884 + 810 = 1694$				
1208	Bitumen washer	100 nos	1,694.00	25.00	423.50
9999	Carriage of bolts and washers	L.S.	26.91	1.49	40.10

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Sundries	L.S.	53.82	1.49	80.19
	LABOUR:				
0130	Mistry	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	15.50	273.00	4,231.50
0114	Beldar	day	15.50	247.00	3,828.50
	TOTAL				1,48,140.45
	Add Water Charges @ 1%				1,481.40
	TOTAL				1,49,621.85
	Add CPOH @ 15%				22,443.28
	Cost of 184.518 sqm				1,72,065.13
	Cost of 1 sqm				932.51
	Say				932.50

12.47.2 2 mm thick flat

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for area of roof 2x18.09x5.1 = 184.518 sqm</i>				
	MATERIAL:				
8667	UV stabilised 2 mm thick plain FRP sheet	sqm	240.408	465.00	1,11,789.72
9999	Carriage of sheet	L.S.	104.00	1.49	154.96
	G.I.Seam bolts and nuts 60cm centre to centre zig-zag i.e. 30cm centre to centre straight				
	Breadth is 5.1 metre				
	No. of bolts in one lap $5.1/0.3 = 17$ Nos.				
	$2 \times 26(\text{laps}) \times 17 \text{ Nos.} = 884 \text{ Nos}$				
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	884.00	20.00	1,768.00
	G.I.,J or L hooks 8mm dia.				
	(No. of purlins to be used 5 on either side) $2 \times 5 \times 27$				
	(No. of sheets) $\times 23$ Nos. of bolts in each sheet = 810 Nos				
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	810.00	90.00	7,290.00
1207	G.I. Limpet washer	100 nos	1,694.00	35.00	592.90
	(total of seam and J bolts)				
	$884 + 810 = 1694$				
1208	Bitumen washer	100 nos	1,694.00	25.00	423.50
9999	Carriage of bolts and washers	L.S.	26.91	1.49	40.10
9999	Sundries	L.S.	53.82	1.49	80.19
	LABOUR:				
0130	Mistry	day	1.30	301.00	391.30
0112	Carpenter 2nd class	day	15.50	273.00	4,231.50
0114	Beldar	day	15.50	247.00	3,828.50
	TOTAL				1,30,590.67
	Add Water Charges @ 1%				1,305.91
	TOTAL				1,31,896.58
	Add CPOH @ 15%				19,784.49
	Cost of 184.518 sqm				1,51,681.07
	Cost of 1 sqm				822.04
	Say				822.05

12.48 Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
8670	Mangalore tiles 20 mm thick	each	160.00	10.20	1,632.00
2207	Carriage of brick tiles	1000 Nos	160.00	140.16	22.43
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.30	301.00	90.30
0114	Beldar	day	1.56	247.00	385.32
9999	Sundries	L.S.	13.00	1.49	19.37
	TOTAL				2,149.42
	Add Water Charges @ 1%				21.49
	TOTAL				2,170.91
	Add CPOH @ 15%				325.64
	Cost of 10 sqm				2,496.55
	Cost of 1 sqm				249.66
	Say				249.65

12.49 Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20 mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 3.60 sqm</i>				
	MATERIAL:				
8669	Mangalore ridge tiles 20 mm thick	each	12.00	29.00	348.00
2207	Carriage of brick tiles	1000 Nos	12.00	140.16	1.68
	LABOUR:				
0123	Mason (brick layer) 1 st class	day	0.01	301.00	3.01
0114	Beldar	day	0.15	247.00	37.05
9999	Sundries	L.S.	2.60	1.49	3.87
	TOTAL				393.61
	Add Water Charges @ 1%				3.94
	TOTAL				397.55
	Add CPOH @ 15%				59.63
	Cost of 3.6 sqm				457.18
	Cost of 1 sqm				126.99
	Say				127.00

12.50 Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM

seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 216.14 sqm</i>				
	MATERIAL:				
	Consider a shed of 20x10 metres. (External dimensions of plinth).				
	Area of roof- 20.2x10.70m = 216.14 sqm.				
	MATERIAL:				
	Sheets used = 20 Nosx10.70mx1.06m = 226.84sqm				
	Add 3% wastage = 6.81				
	Total = 233.65sqm				
8671	Precoated galvanised iron profile sheet 0.50 mm TCT	sqm	233.65	435.00	1,01,637.75
9999	Carriage of sheets	L.S.	104.00	1.49	154.96
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	476.00	90.00	4,284.00
1208	Bitumen washer	100 nos	476.00	25.00	119.00
1209	G.I. plain washer thick	100 nos	476.00	32.00	152.32
9999	Carriage of bolts and nuts, washers etc.	L.S.	8.06	1.49	12.01
9999	Sundries	L.S.	39.52	1.49	58.88
	LABOUR:				
0130	Mistry	day	2.34	301.00	704.34
0112	Carpenter 2nd class	day	9.34	273.00	2,549.82
0114	Beldar	day	9.34	247.00	2,306.98
	TOTAL				1,11,980.06
	Add Water Charges @ 1%				1,119.80
	TOTAL				1,13,099.86
	Add CPOH @ 15%				16,964.98
	Cost of 216.14 sqm				1,30,064.84
	Cost of 1 sqm				601.76
	Say				601.75

12.51 Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :

12.51.1 Ridges plain (500 - 600 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metre</i>				
	MATERIAL:				
	One piece plain ridges				
	Consider a shed of 20x10m (external dimensions at plinth).				
	Length of ridges 20.2 metre + 5% wastage = 23.11 metre				
8672	Precoated galvanised steel plain ridges	metre	23.11	440.00	10,168.40

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage (The ridge is to be fixed with the same hooks as the Sheets)	L.S.	13.52	1.49	20.14
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0130	Mistry	day	0.14	301.00	42.14
0112	Carpenter 2nd class	day	0.55	273.00	150.15
0114	Beldar	day	1.64	247.00	405.08
	TOTAL				10,795.98
	Add Water Charges @ 1%				107.96
	TOTAL				10,903.94
	Add CPOH @ 15%				1,635.59
	Cost of 20.2 metre				12,539.53
	Cost of 1 metre				620.77
	Say				620.75

12.51.2 Flashings / Aprons (Upto 600 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metres completed length</i>				
	MATERIAL:				
8673	Precoated galvanised steel flashings/aprons	metre	23.11	440.00	10,168.40
	20.20 + 5% wastage = 23.11 metre				
9999	Carriage of apron pieces. (The apron pieces are to be fixed with the same hooks as the sheets)	L.S.	3.25	1.49	4.84
9999	Sundries	L.S.	3.25	1.49	4.84
	LABOUR:				
0130	Mistry	day	0.07	301.00	21.07
0112	Carpenter 2nd class	day	0.28	273.00	76.44
0114	Beldar	day	0.82	247.00	202.54
	TOTAL				10,478.13
	Add Water Charges @ 1%				104.78
	TOTAL				10,582.91
	Add CPOH @ 15%				1,587.44
	Cost of 20.2 metre				12,170.35
	Cost of 1 metre				602.49
	Say				602.50

12.51.3 North light curves

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 20.20 metres long completed length</i>				
	MATERIAL:				
8675	Precoated galvanised steel north light curves	metre	23.11	455.00	10,515.05
	20.20 + 5% wastage = 23.11 metre				
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	40.00	90.00	360.00
1209	G.I. plain washer thick	100 nos	40.00	32.00	12.80
1208	Bitumen washer	100 nos	40.00	25.00	10.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.49	14.72
9999	Sundries	L.S.	6.24	1.49	9.30
	LABOUR:				
0130	Mistry	day	0.10	301.00	30.10
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				11,280.87
	Add Water Charges @ 1%				112.81
	TOTAL				11,393.68
	Add CPOH @ 15%				1,709.05
	Cost of 20.2 metre				13,102.73
	Cost of 1 metre				648.65
	Say				648.65

12.51.4 Barge board (Upto 300 mm)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 8.23 metre</i>				
	MATERIAL:				
	Completed length of barge boards = 8.23 + 5% wastage = 8.64 metre				
8676	Precoated galvanised steel barge board	metre	8.64	445.00	3,844.80
0222	Seam bolts and nuts 6 mm dia and 25 mm long	10 nos	5.00	35.00	17.50
1211	G.I. plain washer for seam bolts	100 nos	10.00	32.00	3.20
1208	Bitumen washer	100 nos	5.00	25.00	1.25
9999	Carriage of barge boards, bolts, nus and washers	L.S.	9.36	1.49	13.95
9999	Sundries	L.S.	6.76	1.49	10.07
	LABOUR:				
0130	Mistry	day	0.04	301.00	12.04
0112	Carpenter 2nd class	day	0.06	273.00	16.38
0114	Beldar	day	0.40	247.00	98.80
	TOTAL				4,017.99
	Add Water Charges @ 1%				40.18
	TOTAL				4,058.17
	Add CPOH @ 15%				608.73
	Cost of 8.23 metre				4,666.90
	Cost of 1 metre				567.06
	Say				567.05

12.51.5 Crimp curve

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for crimp curve 20.2 metres long</i>				
	<i>Area 20.20 x 1.06 =21.412 sqm</i>				
	MATERIAL:				
8677	Precoated galvanised steel crimp curve	sqm	22.483	475.00	10,679.42
1023	Galvanised steel J or L hooks 8 mm dia	10 nos	40.00	90.00	360.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
1209	G.I. plain washer thick	100 nos	40.00	32.00	12.80
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of hooks, nuts, washers and curves.	L.S.	9.88	1.49	14.72
9999	Sundries	L.S.	6.24	1.49	9.30
	LABOUR:				
0130	Mistry	day	0.10	301.00	30.10
0112	Carpenter 2nd class	day	0.30	273.00	81.90
0114	Beldar	day	1.00	247.00	247.00
	TOTAL				11,445.24
	Add Water Charges @ 1%				114.45
	TOTAL				11,559.69
	Add CPOH @ 15%				1,733.95
	Cost of 21.412 sqm				13,293.64
	Cost of 1 sqm				620.85
	Say				620.85

12.51.6 Gutter (600 mm over all girth)

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 metre</i>				
	MATERIAL:				
	0.63mm thick with zinc coating not less than 275gm/sqm				
	Consider a length of 10.00m				
	Sheet used = 10x1.06m x 0.60 = 6.36 sqm.				
	Total = 6.36 metre				
8674	Precoated galvanised steel gutter	metre	10.00	455.00	4,550.00
9999	Carriage of gutter	L.S.	1.04	1.49	1.55
1008	Flats up to 10 mm in thickness	quintal	0.0749	4,200.00	314.58
1022	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 nos	20.00	20.00	40.00
1024	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	each	30.00	10.00	300.00
1210	G.I. plain washer thin	100 nos	70.00	30.00	21.00
1208	Bitumen washer	100 nos	40.00	25.00	10.00
9999	Carriage of G.I. seam bolts and	L.S.	2.73	1.49	4.07
9999	Sundries	L.S.	5.33	1.49	7.94
	LABOUR:				
0102	Blacksmith 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries	L.S.	12.61	1.49	18.79
0130	Mistry	day	0.28	301.00	84.28
0102	Blacksmith 1 st class	day	0.84	301.00	252.84
0112	Carpenter 2nd class	day	0.62	273.00	169.26
0114	Beldar	day	1.68	247.00	414.96
	TOTAL				6,463.27
	Add Water Charges @ 1%				64.63
	TOTAL				6,527.90
	Add CPOH @ 15%				979.18
	Cost of 10 metre				7,507.08
	Cost of 1 metre				750.71
	Say				750.70

- 12.52 Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams per sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/ making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.**
- 12.52.1 GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.**

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i> Ceiling Area =100 sqm Add wastage @ 5% = 0.05 sqm. Total=100.05 sqm MATERIAL:				
8599	GI Metal Tile Lay-in Plain Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	100.05	809.00	80,940.45
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	187.00	5,516.50
8612	Including Wastage @ 10% Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.50	118.00	1,593.00
8613	Including Wastage @ 10% Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	147.00	72.00	10,584.00
8614	Including Wastage @ 10% on grid for cut outs Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	147.00	34.00	4,998.00
8615	Including Wastage @ 10% on grid for cut outs Hanger rod 4 mm thick	each	72.00	7.00	504.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.49	280.05

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
9999	Carriage of materials etc.	L.S.	89.28	1.49	133.03
0111	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				1,22,762.03
	Add Water Charges @ 1%				1,227.62
	TOTAL				1,23,989.65
	Add CPOH @ 15%				18,598.45
	Cost of 100 sqm				1,42,588.10
	Cost of 1 sqm				1,425.88
	Say				1,425.90

12.52.2 GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 0.05 sqm.				
	Total=100.05 sqm				
	MATERIAL:				
8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595 mm and 0.5 mm thick	sqm	100.05	906.00	90,645.30
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	187.00	5,516.50
	Including Wastage @ 10%				
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.50	118.00	1,593.00
	Including Wastage @ 10%				
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	147.00	72.00	10,584.00
	Including Wastage @ 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	147.00	34.00	4,998.00
	Including Wastage @ 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.00	7.00	504.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.49	280.05
9999	Carriage of materials etc.	L.S.	89.28	1.49	133.03
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				1,32,466.88
	Add Water Charges @ 1%				1,324.67
	TOTAL				1,33,791.55
	Add CPOH @ 15%				20,068.73
	Cost of 100 sqm				1,53,860.28
	Cost of 1 sqm				1,538.60
	Say				1,538.60

12.52.3 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16 mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 0.05 sqm.				
	Total=100.05 sqm				
	MATERIAL:				
8601	PVC Laminated Gypsum Tiles (Square edge) of Size 595x595 mm and 12.5 mm thick	sqm	100.05	468.00	46,823.40
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long)	each	29.50	187.00	5,516.50
	Including Wastage @ 10%				
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long)	each	13.50	118.00	1,593.00
	Including Wastage @ 10%				
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long)	each	147.00	72.00	10,584.00
	Including Wastage @ 10% on grid for cut outs				
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long)	each	147.00	34.00	4,998.00
	Including Wastage @ 10% on grid for cut outs				
8615	Hanger rod 4 mm thick	each	72.00	7.00	504.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.49	280.05
9999	Carriage of materials etc.	L.S.	89.28	1.49	133.03
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				88,644.98
	Add Water Charges @ 1%				886.45
	TOTAL				89,531.43
	Add CPOH @ 15%				13,429.71
	Cost of 100 sqm				1,02,961.14
	Cost of 1 sqm				1,029.61
	Say				1,029.60

12.52.4 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I , of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i> Celling Area =100 sqm Add wastage @ 5% = 0.05 sqm. Total=100.05 sqm MATERIAL:				
8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick	sqm	100.05	484.00	48,424.20
8611	Main T ceiling sections 24x38x0.3 mm (3 metre long) Including Wastage @ 10%	each	29.50	187.00	5,516.50
8612	Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) Including Wastage @ 10%	each	13.50	118.00	1,593.00
8613	Intermediate cross T-Section 24x25x0.3 mm (1.2 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	72.00	10,584.00
8614	Intermediate cross T-Section 24x25x0.3 mm (0.6 m long) Including Wastage @ 10% on grid for cut outs	each	147.00	34.00	4,998.00
8615	Hanger rod 4 mm thick	each	72.00	7.00	504.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
9999	Sundries i.e scaffolding etc.	L.S.	187.95	1.49	280.05
9999	Carriage of materials etc.	L.S.	89.28	1.49	133.03
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				90,245.78
	Add Water Charges @ 1%				902.46
	TOTAL				91,148.24
	Add CPOH @ 15%				13,672.24
	Cost of 100 sqm				1,04,820.48
	Cost of 1 sqm				1,048.20
	Say				1,048.20

12.53 Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre

to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x 28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calcium silicate ceiling tiles of approved texture (Spintone / Cosmos/ hexa) in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in-charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm. The calcium silicate ceiling tile shall have NRC. value of 0.50 (Minimum), light reflection > 85%, non - combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity < 0.043 w/m 0 KC.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	MATERIAL:				
8589	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick Area = 100 sqm + Add 5% wastage = 5 sqm Total = 105 sqm	sqm	105.00	858.00	90,090.00
8590	Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long)	each	29.50	192.00	5,664.00
8591	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	each	13.50	125.00	1,687.50
8592	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long)	each	147.00	77.00	11,319.00
8593	Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long)	each	147.00	39.00	5,733.00
8615	Hanger rod 4 mm thick	each	72.00	7.00	504.00
8616	Adjustment clip 85x30x0.8 mm	each	72.00	6.00	432.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	72.00	48.00	3,456.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	72.00	3.00	216.00
8595	Wooden screws with plastic rawl plugs 35x8 mm	each	100.00	.55	55.00
9999	Scaffolding etc.	L.S.	498.65	1.49	742.99
9999	Carriage of material etc.	L.S.	237.48	1.49	353.85
9999	Sundries	L.S.	310.70	1.49	462.94
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00

Code	Description	Unit	Quantity	Rate	Amount
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				1,34,825.28
	Add Water Charges @ 1%				1,348.25
	TOTAL				1,36,173.53
	Add CPOH @ 15%				20,426.03
	Cost of 100 sqm				1,56,599.56
	Cost of 1 sqm				1,566.00
	Say				1,566.00

12.54 Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with :

12.54.1 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i> Celling Area =100 sqm Add wastage @ 5% = 5 sqm. Total=105 sqm MATERIAL:				
8597	GI Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	105.00	894.00	93,870.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.00	180.00	10,800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.70	155.00	4,293.50
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.00	164.00	5,412.00
	Including wastage @ 10% on grid for cut outs				
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	11.00	968.00
8610	Wire Coupling Clip	each	333.00	9.00	2,997.00
8615	Hanger rod 4 mm thick	each	80.00	7.00	560.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
8616	Adjustment clip 85x30x0.8 mm	each	80.00	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.00	3.00	240.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.00	48.00	3,840.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	1.49	280.12
9999	Carriage of materials etc.	L.S.	90.00	1.49	134.10
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				1,38,687.72
	Add Water Charges @ 1%				1,386.88
	TOTAL				1,40,074.60
	Add CPOH @ 15%				21,011.19
	Cost of 100 sqm				1,61,085.79
	Cost of 1 sqm				1,610.86
	Say				1,610.85

12.54.2 GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 100 sqm</i>				
	Celling Area =100 sqm				
	Add wastage @ 5% = 5 sqm.				
	Total=105 sqm				
	MATERIAL:				
8598	GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	105.00	998.00	1,04,790.00
8604	Spring T-section 24x34x0.45 mm (3.00 meter long)	metre	60.00	180.00	10,800.00
	Including wastage @ 10%				
8605	C Wall angle section 20x30x20x0.50 mm (3.00 meter long)	metre	27.70	155.00	4,293.50
	Including wastage @ 10%				
8606	Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long)	metre	33.00	164.00	5,412.00
	Including wastage @ 10% on grid for cut outs				
8607	Spring T-connector	each	44.00	5.00	220.00
8608	C Carrier Connector	each	44.00	11.00	484.00
8609	C Suspension Clip	each	88.00	11.00	968.00
8610	Wire Coupling Clip	each	333.00	9.00	2,997.00
8615	Hanger rod 4 mm thick	each	80.00	7.00	560.00
8616	Adjustment clip 85x30x0.8 mm	each	80.00	6.00	480.00
8617	Soffit cleat (Size 27x37x25x1.60 mm)	each	80.00	3.00	240.00
7388	Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt	each	80.00	48.00	3,840.00
9999	Sundries i.e. scaffolding etc.	L.S.	188.00	1.49	280.12
9999	Carriage of materials etc.	L.S.	90.00	1.49	134.10
	LABOUR:				
0111	Carpenter 1 st class	day	28.00	301.00	8,428.00

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
0114	Beldar	day	23.00	247.00	5,681.00
	TOTAL				1,49,607.72
	Add Water Charges @ 1%				1,496.08
	TOTAL				1,51,103.80
	Add CPOH @ 15%				22,665.57
	Cost of 100 sqm				1,73,769.37
	Cost of 1 sqm				1,737.69
	Say				1,737.70

12.55 Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection >0.70 and initial emittance >0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	Area= 10 sqm+				
	Add wastage @ 3%=0.3 sqm				
	Total=10.30 sqm				
	MATERIAL:				
1204	Precast heat resistant terrace tiles (size 300x300 mm) and 20 mm thick	sqm	10.30	482.00	4,964.60
	Cement mortar 1:4 (1 cement : 4 coarse sand)				
3.9	Rate as per Item Number 3.9 of SH: Mortars	cum	0.224	3,485.40	780.73
0367	Portland Cement	tonne	0.044	5,000.00	220.00
0368	White Cement	tonne	0.044	12,000.00	528.00
2209	Carriage of cement	tonne	0.088	77.87	6.85
0875	Red, chocolate, orange, buff or yellow (red oxide of iron) light shade pigment	kilogram	3.08	70.00	215.60
	LABOUR:				
0124	Mason (brick layer) 2nd class	day	1.60	273.00	436.80
0115	Coolie	day	2.00	247.00	494.00
0139	Skilled Beldar (for floor rubbing etc.)	day	1.00	260.00	260.00
0101	Bhisti	day	1.00	260.00	260.00
0013	Machine for rubbing of floors	day	1.60	300.00	480.00
9999	Sundries including carborandum stone etc.	L.S.	169.98	1.49	253.27
	TOTAL				8,899.85
	Add Water Charges @ 1%				89.00
	TOTAL				8,988.85
	Add CPOH @ 15%				1,348.33
	Cost of 10 sqm				10,337.18
	Cost of 1 sqm				1,033.72
	Say				1,033.70

12.56 Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1: 2 : 4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm

nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 1 sqm</i>				
	MATERIAL:				
7050	PU Primer	sqm	1.00	40.75	40.75
	Area for PU Spray = 1 sqm+				
	Add for wastage @ 10%=0.10 sqm				
	Total=1.10 sqm				
7051	40 mm (average) PU spray having 40-45 kg/m3 density	sqm	1.10	419.40	461.34
7052	Gl wire netting 3/4" x 24 G	sqm	1.00	26.25	26.25
9999	Sundries	L.S.	6.71	1.49	10.00
9999	Polymerized mastic for all joints	L.S.	20.13	1.49	29.99
7053	400 G polythene sheet	sqm	1.00	15.00	15.00
	Wearing course i.e. 40mm cement				
9999	Cement	L.S.	44.67	1.49	66.56
9999	Graded stone	L.S.	13.75	1.49	20.49
9999	Sand	L.S.	21.48	1.49	32.01
9999	Carriage of material	L.S.	16.78	1.49	25.00
	LABOUR:				
9999	For PU spray	L.S.	80.54	1.49	120.00
9999	For cement screed with Polythene sheet	L.S.	53.69	1.49	80.00
	TOTAL				927.39
	Add Water Charges @ 1%				9.27
	TOTAL				936.66
	Add CPOH @ 15%				140.50
	Cost of 1 sqm				1,077.16
	Say				1,077.15

12.57 Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200 G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing Gl wire etc. complete as per directions of Engineer-in-Charge.

Code	Description	Unit	Quantity	Rate ₹	Amount ₹
	<i>Details of cost for 10 sqm</i>				
	MATERIAL:				
	Area for 10.00sqm. (Finished surface) = 10.00sqm.+				
	Add Wastage @ 10% =1.00 sqm				
	Total =11.00sqm				
7232	Resin Bonded Glass wool 24 kg/ m3: 50 mm thick	sqm	11.00	204.00	2,244.00
9999	Sundries including GL wire 20 SWg and Virgin polythene bags 200 gram	L.S.	52.00	1.49	77.48
	LABOUR:				
0111	Carpenter 1 st class	day	0.50	301.00	150.50
0114	Beldar	day	0.50	247.00	123.50
9999	Sundries (screws and washers)	L.S.	20.00	1.49	29.80
	TOTAL				2,625.28
	Add Water Charges @ 1%				26.25
	TOTAL				2,651.53
	Add CPOH @ 15%				397.73
	Cost of 10 sqm				3,049.26
	Cost of 1 sqm				304.93
	Say				304.95